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# The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2.

Registered as a Newspaper

No. 3489  
Vol. CXLVI

DECEMBER 21, 1946

Annual Subscription (with  
Diary) 25/- Single copies 9d.



Post-war prospects are looking up.  
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Xmas greetings and best wishes for 1947 from

**BURGOYNE BURBIDGES**

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**P**ARKE, DAVIS & COMPANY  
OFFER ALL PHARMACISTS  
THEIR SINCERE WISHES  
FOR CHRISTMAS AND  
THE NEW YEAR.....  
THEIR AIM FOR 1947  
IS INCREASED SUPPLIES

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PARKE, DAVIS & COMPANY  
50 BEAK STREET, LONDON, W.1



# After twenty years



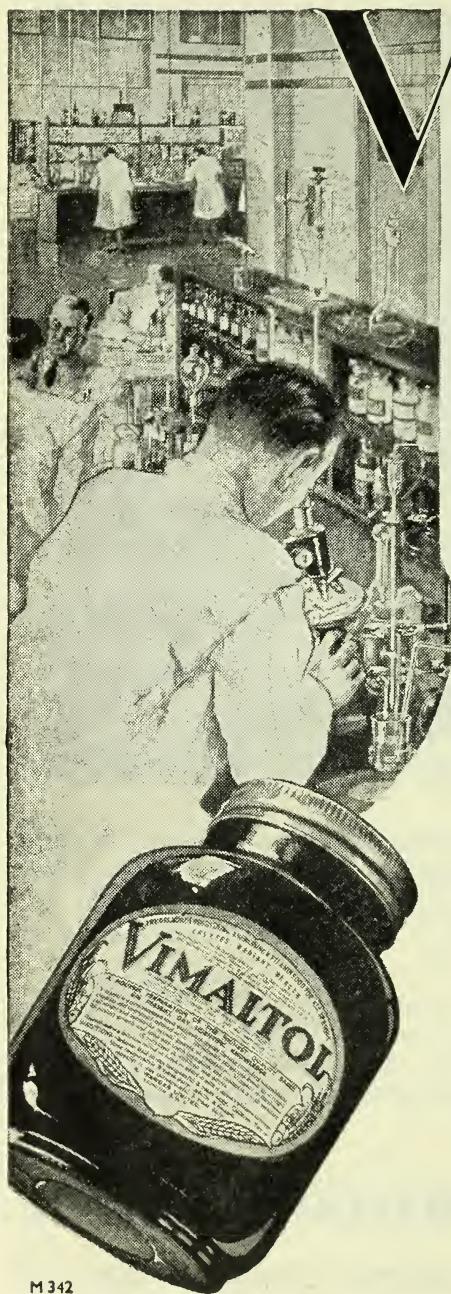
After twenty years a familiar friend is to disappear. As from 14th October, 1946 the familiar 8d Milton bottle is being replaced by a bottle containing one-and-a-half times the quantity of antiseptic (approximately three instead of two fluid ounces) to retail at 1/-.

We are still permitted to sell only two sizes of Milton and the larger size will continue to retail at 1/11½d.

Both bottles are greatly improved in appearance, with a new plastic screw cap replacing the old rubber stopper and an attractive redesigned label.

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**B**ECAUSE it incorporates important vitamins in a form entirely pleasant and acceptable to every patient, 'Vimaltol' presents special advantages to the physician.

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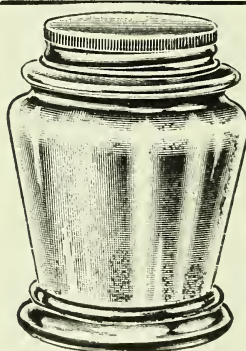
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*H. Walden.*

MANAGING DIRECTOR.

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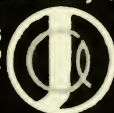
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gross, plus tax.  
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— SO WILL YOU



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17/- per doz.  
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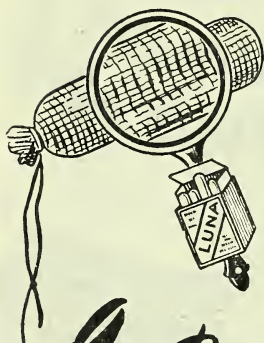


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1 gramme (in 3 c.c.) : boxes of 6 and 25.

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*Obtainable from your usual suppliers.*

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**THE RIDGE, BEECHFIELD ROAD, ALDERLEY EDGE, MANCHESTER**

Ph. 163b

# M&B

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 EPHEDRINE  
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BOTTLES  
 OF 2½ OZ

**1'9**

PLUS PURCHASE TAX

For affections of the  
 respiratory tract.



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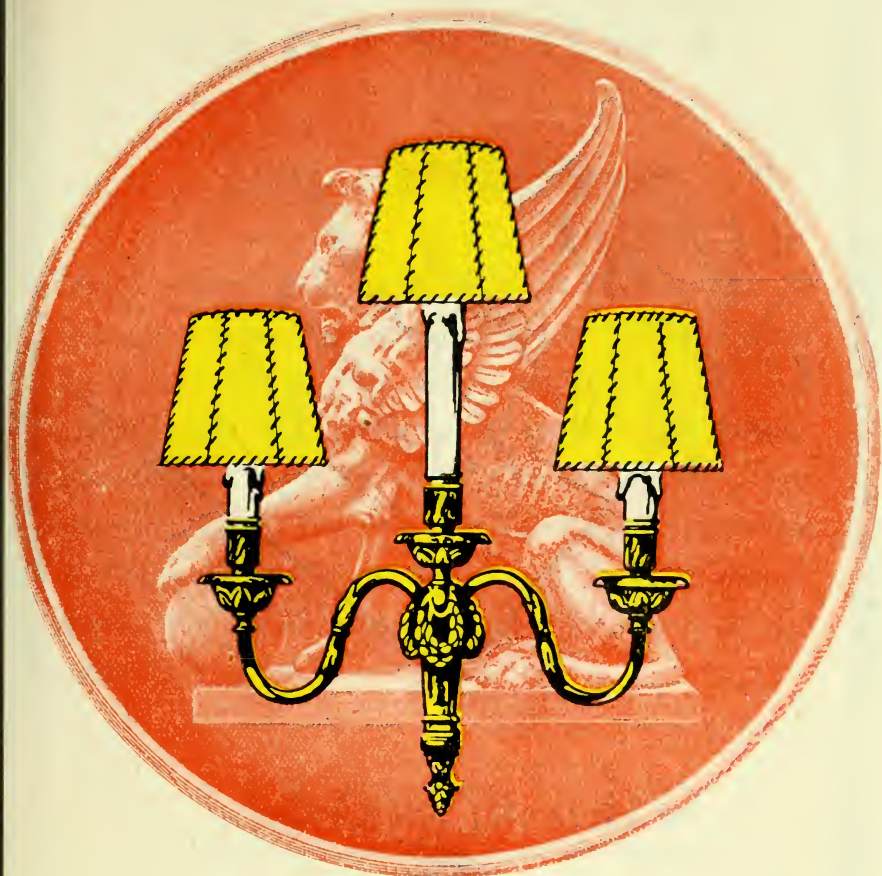
**PATA**

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PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD., DAGENHAM

# Greetings

and Good Wishes for 1947



from

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*We wish all our friends*



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Fold cases flat, flaps inside, tie up. Ready addressed gummed labels obtainable from our travellers, or direct from us. Up to 15 lbs., by post (*state cost on label*). Over 15 lbs., by rail, c/fwd (*or state cost on label*).

# ANDREWS

SCOTT & TURNER, LTD.  
Andrews House, Newcastle-upon-Tyne, 2

T9

## FORBES'

GENUINE HAARLEM OIL  
DUTCH DROPS

9d. size — 4/- doz.

1/3 „ 2-oz. 7/6 „



CAPSULES (36's)

1/5 Retail, 11/- doz.

Plus Purchase Tax

Manufactured by :

**BROOK, PARKER & Co. Ltd.**  
BRADFORD

## APPROVED PRODUCTS

FOR YOUR

## C. F. DISPLAY STAND

WINTERGREEN

-ANALGESIC

-CREAM

in Tubes. Retail 1/7 including Purchase Tax.  
1 doz. Display Outers

ANÆSTHETIC

-ANTISEPTIC

-OINTMENT

in Tubes. Retail 1/7 including Purchase Tax.  
1 doz. Display Outers

ANÆSTHETIC

-ANTISEPTIC

-DERMAL LOTION

3 oz. bottles. Retail 2/2 including Purchase Tax.

TWO PRODUCTS FOR WINTER SKIN AFFECTIONS

**DAMANCY & CO. LTD.**

HARROW, MIDDLESEX

Phone: BYRON 1440/1800 Grams Damancy Harrow

# You will be glad to hear . . .

We feel sure that our friends in the trade will be glad to hear that we are now backing ARGOTONE NASAL DROPS with heavy national advertising. This national advertising will materially increase the sales of ARGOTONE NASAL DROPS, which have hitherto never been advertised to the public, but have sold entirely on prescriptions from doctors who have tested it and on recommendation from chemists who, from its formula, know ARGOTONE to be a good product.

We give below a list of some of the publications in which we have booked advertising space and we hope that you will ensure having sufficient stocks in hand to meet the increased demand.

## NATIONAL PRESS

British Medical Press	Sunday Newspapers
British Medical Journal	News of the World
Nursing Mirror	Sunday Dispatch
Morning Newspapers	Sunday Pictorial
Daily Mail	Sunday Chronicle
Daily Mirror	Religious Newspapers
Daily Dispatch	(Weekly)
Daily Telegraph	Catholic Herald
Daily Worker	Christian World
News Chronicle	Sentinel
London Evenings	
Evening News	
Star	

## PROVINCIAL PRESS

Dailies	
Aberdeen ..	Press & Journal
Barrow-in-Furness ..	North West Evening Mail
Bradford ..	Yorkshire Observer
Brighton ..	Sussex Daily News
Cardiff ..	Evening Argus
Carlisle ..	South Wales Echo
Darlington ..	Western Mail & Echo
Glasgow ..	Cumberland Evening News
	Northern Despatch
	Daily Record
	Herald
	Bulletin
	Evening News
Newcastle ..	Journal
Nottingham ..	Journal
Portsmouth ..	Evening News
	Hampshire Telegraph
Shields ..	North Shields Evening News
	South Shields Gazette
Sunderland ..	Echo
Swindon ..	Evening Advertiser
West	
Hartlepool	Northern Daily Mail

## MAGAZINES

Weeklies	Monthlies
Answers	Homes & Gardens
Everybody's	H.S.A. Contributor
Home Chat	Mother & Home
Home Notes	Psychology Magazine
Leader	Taxes
Picture Post	United Nations News
Post	Weldon's Ladies' Journal
Tit-Bits	Wife & Home
Woman's Friend	
Woman's Illustrated	
Woman's Own	
Woman's Weekly	

## Weeklies

Accrington ..	Observer
Almwick ..	Northumberland Gazette
Blyth ..	News & Ashington Post
Bootle ..	Times Series
Burton ..	Chronicle
Bury St. Edmunds ..	Free Press
Derby ..	Advertiser
Goole ..	Times
Kentish Times Series	
London Suburban & Home Counties (34 papers)	
London & Southern Counties (41 papers)	
Luton ..	News Series
Peebleshire ..	Advertiser
Rugby ..	Advertiser
Skipton ..	Craven Herald
Tenby ..	Observer
Whitby ..	Gazette
York ..	Yorkshire Gazette

## NORTHERN IRELAND

Belfast ..	Telegraph
	Irish News.
Coleraine ..	Northern Constitution

## POSTERS

Underground Rly., District and Metro.  
London T. amcars  
Southern Elec. Rly.



# ARGOTONE

Nasal Drops

RONA LABORATORIES LIMITED  
159 FINCHLEY ROAD, LONDON, N.W.3

## Christmas 1946

**CUXSON, GERRARD & CO. LTD.**  
**OLDBURY**  
 Nr. BIRMINGHAM

and their representatives

### **Send Seasonal Greetings**

to all friends in the trade with the hope  
 that in the coming year conditions may  
 permit them a greater contribution  
 towards prosperity.

**PATA**

### **LOSALL'S HALIBUT LIVER OIL CAPSULES**

RETAIL PRICE 1/8 .. 12/6 doz.

-do- 3/4 .. 25/- doz.

TAX FREE

WE CAN SUPPLY BY RETURN POST

**LOFTHOUSE & SALTMER LTD.**

MANUFACTURING CHEMISTS

**HULL**



In the Blue and White tins, 2/-.

Herts Pharmaceutical, Ltd., Welwyn Garden City.



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IT'S AN ABBOTT RESEARCH PRODUCT

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# Render unto Caesar—

The credit of PENTOTHAL has been built on proved merit.

It was originated in Abbott Research Laboratories and has been tested under most diverse conditions over many years.

Year by year, in peace and war, ABBOTT'S have led the march of progress in the field of intravenous anæsthesia.

ABBOTT supplied both military and civilian needs. Today the wealth of accumulated experience in the safety and effectiveness of PENTOTHAL is the safeguard of the trained anæsthetist in his daily work.

Descriptive literature will be sent on request.

## PENTOTHAL

BRAND OF (SOLUBLE THIOFENTONE BP)

PRODUCED IN ENGLAND BY ABBOTT, PIONEERS IN BARBITURATE INVESTIGATION



ABBOTT LABORATORIES (ENGLAND) LTD.  
WADSWORTH ROAD, PERIVALE, MIDDLESEX

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# **BENGUE'S BULLETIN**



*Supply position now normal :-*

**BENGUE'S BALSAM**

**PULMO (Bailly)**

**LIPIODOL (Lafay)**

**GUIPSINE PILLS**

**AGOCHOLINE**

**PASSIORINE**

*Available shortly :-*

**ANACLASINE — ARHEMEPECTYL**

**MICTASOL — EUCALYPTINE**

**BENGUE & CO. LTD. — MOUNT PLEASANT — ALPERTON**



**FOR**  
**ARTHRITIS**  
PARTICULARLY THE  
INFECTIVE TYPES

**"S.B.T."**  
**BRAND**

**STERILISED  
SOLUTION**

**EXEMPT FROM PURCHASE TAX**

Retail Price	-	10 c.c.	60 c.c.
Net Medical Price	-	11/3 each	55/6 each
Retail Chemists	-	10/- each	50/- each
	-	90/- doz.	444/- doz.

**PATA**

Medical Literature available



**C. J. HEWLETT & SON, LTD.**  
35/43 Charlotte Road, LONDON, E.C.2

*Gives hair NEW LIFE*

## **BIOCRIN**

*Pomade Treatment Shampoo*

A Fast Selling,  
Quick Repeating  
& Highly Profitable Line.  
Backed by an Extensive  
Advertising Campaign.  
Retail Prices : 5/- and 3/-.

**VINE'S BIOCRIN LTD. LONDON, W.2.**

# “OXOID”

The word “OXOID” is the trade mark of OXO Ltd., and is used in connection with their therapeutical preparations both in tablet and fluid extract form.  
ORGANO-THERAPEUTICAL PRODUCTS

## OXO LABORATORY PREPARATIONS

for PERNICIOUS ANÆMIA

### OXO LTD'S LIVER EXTRACT FOR INJECTION (I.M.)

A highly potent preparation for the treatment of pernicious anæmia.

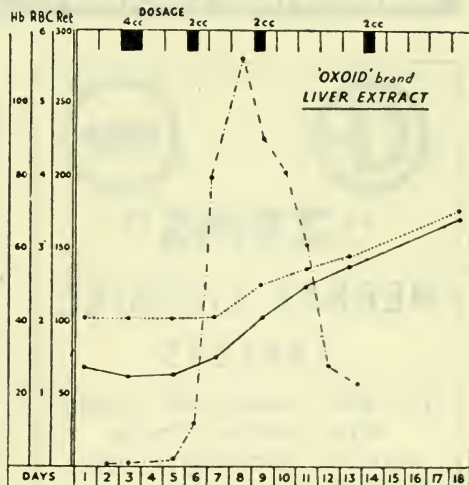
Dosage in emergency cases is 4 c.c. initial dose, followed by 2 c.c. at three days intervals in the first week and 2 c.c. at weekly intervals subsequently. This will usually raise the blood count to normal in a few weeks.

Maintenance dose : 2 c.c. monthly.

Supplied in ampoules of 2 c.c. and  
Bottles of 10 c.c. and 20 c.c.

Ampoules : 6 (6/6) ; 12 (12/6) ; 50 (48/-) ;  
100 (92/-).

Bottles : 10 c.c. (5/3) ; 20 c.c. (8/6).



#### KEY TO GRAPH.

- ..... Haemoglobin per cent.
- Red blood corpuscles in millions.
- Reticulocytes per 100 red cells.

**OXO LIMITED, Thames House, London, E.C.4**



OXO LABORATORY PREPARATIONS





*This TRADE MARK is an apt one for XMAS  
and the NEW YEAR,*

*But it will also stand you  
in good stead throughout  
the YEAR.*



*We take this opportunity to wish all our friends  
Good Luck, Good Deliveries and Less Income Tax.*

**HARKER, STAGG & MORGAN LTD EMMOTT STREET, LONDON, E.C.1**



**"ZEMS"**

## HERBAL LICORICE TABLETS

**THE BEST MEDICATED TABLET  
FOR COUGHS, COLDS  
ASTHMA, BRONCHITIS, ETC.**

*Supplies may be obtained from C.F.  
Wholesale Houses*

**ZEMS, LTD.**

**718-724 Seven Sisters Road, London, N.15**

### APOLOGY

Messrs. Pond's Extract Co., Ltd.,  
Wadsworth Road,  
Perivale,  
Greenford, Middlesex.

I, JAMES PATIENCE, of 1,  
Queen's Road, Southend-on-Sea,  
Essex, hereby acknowledge that I have  
wrongfully (but inadvertently) used  
the word POND'S on jars containing  
cream not of the manufacture of the  
proprietors of the registered Trade  
Mark POND'S, i.e., Pond's Extract  
Co., Ltd. I HEREBY APOLOGISE  
AND EXPRESS MY REGRET to  
you for such inadvertent use of your  
registered Trade Mark and UNDER-  
TAKE that I will not hereafter use  
the word POND'S on or in connection  
with any goods manufactured or dealt  
in by me, other than those emanating  
from Pond's Extract Co., Ltd.

Dated this 19th day of November,  
1946.

**JAMES PATIENCE.**





# BIOLOGICAL MBL PREPARATIONS

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATION

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

					Retail Prices	CHEMISTS' PRICE					
						Per unit			Per dozen		
						Net	+	Purchase Tax	Net	+	Purchase Tax
<b>ANTIPEOL</b>					(inclusive of Tax)						
	<b>MENTMENT</b>	4 oz. tube	...	...	6/8½	4/2½	+	8½	50/5	+	8/5
		40 gr. "	...	...	3/4½	2/1½	+	4½	25/3	+	4/3
		20 gr. "	...	...	1/10½	1/2	+	2½	14/-	+	2/4
<b>QUID</b>		40 c.c. bottle	...	...	3/4½	2/1½	+	4½	25/3	+	4/3
<b>PHTHALMO-ANTIPEOL</b>											
	gr. Nozzled Tube	...	...	...	3/4½	2/1½	+	4½	25/3	+	4/3
<b>RHINO-ANTIPEOL</b>											
	gr. Nozzled Tube	...	...	...	2/9½	1/9	+	3½	21/-	+	3/6
<b>INTEROFAGOS (ORAL AND INJECTABLE)</b>											
	Box of 50 ampoules	...	...	...	19/-	13/3½		None	159/7		None
	" 10 "	...	...	...	4/3	3/-		None	35/8		None
	" 5 "	...	...	...	2/6	1/9		None	21/-		None
<b>ETENSYL</b>											
	Box of 500 tablets	...	...	...	39/-	24/-	+	4/-	288/-	+	48/-
	Box of 50 "	...	...	...	4/5½	2/8½	+	5½	32/4	+	5/3
<b>T. JAMES' BALM</b>											
	Box of approx. 2½ oz.	...	...	...	2/10	1/11	+	4	22/6	+	3/9
	" " 1 oz.	...	...	...	1/5	11	+	2	11/3	+	1/11
	Box ...	...	...	...	1/2	9	+	2	9/-	+	1/6

Carriage paid on all orders of 1 dozen or £1 and over.

Terms: NETT, Monthly Account.

**MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25**



13 Sackville Street  
Piccadilly, London, W.1



Supplies of Ann Carol Beauty Preparations are increasing week by week, and before very long the range will be available again in pre-war quantities.

Enquiries invited from retailers for agencies at Home and Overseas.

Trade terms: 33½% plus cash discount.

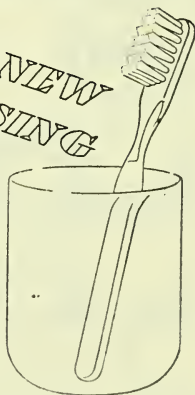


*Ann Carol*

BEAUTY PREPARATIONS



WATCH *the NEW*  
ADVERTISING



**QUIZ** ...  
*teethbrush*

ROBERT A. ROONEY & SONS, LONDON, E.17  
MAKERS OF FINE BRUSHES FOR OVER 150 YEARS

Verdiers

**MANICREEM**

HAND PROTECTIVE CREAM

IT takes the Dirt out of work  
Protects against Dirt, Grime  
Stains and Chafing. It is non  
stick—leaves hands clean smooth  
and healthy. No soap or hot  
water necessary.

18s. 9d. per dozen plus 6s. 3d.  
Purchase Tax, to Retail at 2s. 11d.  
per jar.

Now being advertised in the  
National and Provincial press.



**VERDIERS LTD**  
35, OLD BOND ST., LONDON W.

*Xmas Greetings*

We extend to our friends in the trade our Seasonable Greetings with the added wish that the coming New Year will see us back once more to normal trading.

W. B. CARTWRIGHT LTD., RAWDON, LEEDS



THE MOST EFFECTIVE INSECTICIDE IN THE WORLD  
Kills: Flies, Mosquitoes, Bugs, Body Lice, Beetles, Cockroaches, Ants, Moths, etc., etc.

LONDONASTRAL  
GEIGY

**D.D.T.**  
INSECTICIDE  
(CONTAINING MINIMUM 8% GEIGY D.D.T.)

This same D.D.T. was  
used for the British Army  
all over the World

Distributors: ASLAN BROS., 9 MATHESON ROAD, LONDON, W.14.  
Manufactured by: DIMOL LABORATORIES LTD., LONDON, ENGLAND

**WE PACK YOUR  
PRODUCTS**

OR MANUFACTURE  
AND PACK  
ANY  
QUANTITY

*Send them  
to*

**T.J. FAVELL & CO. LTD.**  
*Manufacturing  
Chemists*  
192  
SEVEN SISTERS RD.  
LONDON, N. 4.

Phone -  
ARC 1846





# Perfumery Raw Materials for Soap and Cosmetic Manufacturers

## CARVANSONS LTD.

**Monton Lane Works, Eccles, Lanes.**

Phone : Eccles 2316

Grams : Carvansons, Manchester



★ "S.S." Shampoo Cream.

Retails at 4/9, 9/-, 33/-

★ "SEBOSYN" a hair food and hair make-up.

Retails at 10/-

★ EAU DENTIFRICE more than a mouthwash.

Retails at 1/9, 3/-, 5/6, 10/6  
including purchase tax

*Are you qualifying for these special display terms  
on parcels of 1, 2 or 3 products?*

5% discount on £6 (Excl. P.T.) parcels

7½% " " £12 " "

10% " " £25 " " (and over)

Chemist's profit is 75% on cost price

preparations by

**Steiner**

DOBSON & STEINER LTD., 66, Grosvenor Street, London, W.1.

Mayfair 5245/6/7

# MOTHAKS

Regd.

The Effective Moth Damage Preventive,  
Proved in use during 17 years.



Remember that MOTHAKS are consistently advertised throughout the year, and year after year, in well over 100 carefully selected newspapers and magazines.

SOLE MAKERS:

**THOMPSON & CAPPER WHOLESALE LTD.**

Speke Hall Road, Liverpool, 19



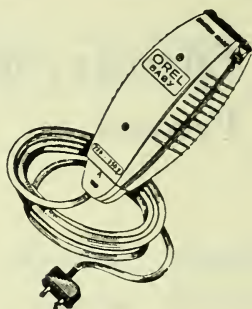
This is "Sparkie," who is appearing in the SPA Film to be released in nearly 600 cinemas.

There is no finer toothbrush made—anywhere. It costs a little more—but it gives it all back, and more, in extra wear. It is a quality article in every sense of the word—one that you can unhesitatingly recommend to your customers.

A P.A.T.A. article.

**John Freeman & Co., Ltd.**  
"Spa" Brush Works, Chesham, Bucks.

## OREL BABY ELECTRIC DRY SHAVER



*Britain*  
**CAN make it !**

YES, but like so many other nice things at the exhibition, not for the Home Market—yet.

From the large number of enquiries received, we are pleased to see that the OREL BABY Dry Shaver has created so much interest but, many thousands have to be exported before we can supply the Home Market.

We are afraid, therefore, it will be a wet shave this Xmas but further announcements will be made in the Trade papers as soon as we are ready.

**SIEGRIST (OREL) LTD.**

39 BERNERS STREET,  
LONDON, W.1.



# WHEN CUSTOMERS ASK FOR ASPIRIN



The chemist who recommends 'Tabloid' brand Aspirin is doing more than effecting an immediate sale — he is building up valuable goodwill. Customers are quick to appreciate the fine finish, rapid disintegration and consistent action of this high-quality product. Display and recommend 'Tabloid' brand Aspirin; every sale is a worth-while transaction.

## 'TABLOID' BRAND ASPIRIN

*Gr. 5, bottles of 25, 1/0, plus 1½d. Purchase Tax.*

*Gr. 5, bottles of 100, 2/10, plus 4½d. Purchase Tax.*

*Retail prices, subject to trade discount.*



**BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON**

# WARRICK BROS. LTD.

R. HENDRIE & CO. • ESTAB. 1760 • MADDOCKS & CO.

## FINE PRODUCTS FOR THE PHARMACY!

### CAPSULES

Bulk Packed and Speciality  
Halibut Liver Oil, Tonic  
Cold Cure, Influenza  
'Stankap' Asthma

### DIGESTIVE Preparations

Bismuth Dyspepsia Tablets  
'Carbo Absorbent' Granules  
Digestive Granules  
'Gestona' brand Tablets

### OINTMENTS

Golden Eye Ointment  
Skin and Eczema Ointment  
Lanoline Ointment B.P.C.  
Pile Ointments

### PASTILLES (Medicated)

Comp. Glyc. of Thymol  
Antiseptic Throat  
Catarrh, Cough  
and others but all temporarily  
in restricted supply

### COUGH & COLD Products

Cold Cure Capsules  
Ephedrine Nasal Compound  
Iomints Anti-catarrh Cream  
Lozenges and Pastilles

### DENTIFRICE & DENTURE Preparations

Tooth Paste  
Effervescent Dentifrice Tablets  
Effervescent Denture Tablets

### PILE Preparations

Stainless Pile Ointment  
and others  
Suppositories  
Pellae 8-day Treatment

### LOZENGES & TABLETS

Usual popular formulae,  
but all temporarily  
in restricted supply.  
Cough, Bismuth Comp.  
Bismuth Dyspepsia, etc.

AND MANY OTHER LINES

Full details sent on application

SEND TO—

**WARRICK BROTHERS, LTD.**

'Phone: CLERKENWELL 2452-3. 'Grams: WARRICKERS, NORDO-LONDON  
CORRESPONDENCE FROM OVERSEAS SOLICITED

**NILE STREET • LONDON**



# The CHEMIST AND DRUGGIST

For RETAILER—WHOLESALE—MANUFACTURER

Published weekly at 28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "CHEMICUS, ESTRAND LONDON."

Telephone: CENTRAL 6565 (10 lines)

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## NEWS OF THE WEEK

**Scottish Photographic Exhibition.**—The forty-second Scottish Salon of International Photography was held at Glasgow Art Gallery, Kelvingrove, from November 30 to December 15.

**Withdrawal of D.D. Authorities.**—The Home Secretary has withdrawn from John Hart Prentice, M.B., Ch.B., Gleniffer, Inverness, Westmorland, the authorities granted him under the regulations made under the Dangerous Drugs Acts.

**Metal Containers and Closures.**—The Board of Trade announces it is not yet possible to modify the restrictions on the marking of metal containers and closures laid down in the Control of Containers and Packaging (No. 4) (General) Order (S.R.O. 1945, No. 1509).

**British Tar Confederation.**—The following officers of the British Tar Confederation were elected recently:—*President*: Sir Walter Benton Jones; *Treasurer*, Mr. C. E. Grey; *Chairman of the Executive Board*, Mr. E. V. Evans; *Vice-chairmen of the Executive Board*, Mr. R. Alsop and Dr. T. Howard Butler.

**Military Medicine Congress.**—The eleventh international congress of military medicine and pharmacy is to be held at Basle, Switzerland, from June 2 to 7, 1947, following an invitation from the Swiss Government. Subjects to be discussed include the prophylaxis of epidemics, and methods of determining the concentration of hydrogen ions.

**Chemical Society Exhibition.**—As part of the centenary celebrations of the Chemical Society, an exhibition illustrating the achievements of British chemistry in the past 100 years and the part chemistry plays in modern life is to open at the Science Museum, South Kensington, in July 1947. The Chemical Society will be responsible for the historical section of the exhibition and the modern section will be arranged by the Department of Scientific and Industrial Research.

**British Colour Makers' Council.**—The following are the officers and Council of the British Colour Makers' Association for the coming year: *Chairman*, Mr. S. K. Roberts (Imperial Chemi-



cal Industries, Ltd., Dyestuffs Division); *Vice-chairman*, Mr. H. G. Ferguson (Cornbrook Chemical Co., Ltd.); *Treasurer*, Mr. C. G. A. Cowan (Cowan Brothers (Stratford) Ltd.); *Council*, Messrs. S. K. Roberts, H. G. Ferguson, K. Burrell, V. Watson, H. A. Wilson, A. H. Orchard, C. L. Lewis, J. Crombie and C. G. A. Cowan.

**Approval of Examiners.**—The Privy Council have approved the appointment by the Pharmaceutical Society of the following examiners:—*England and Wales*: William Alexander Bain, Frederick Robert Chamberlain Bateson, Thomas Archibald Bennet-Clark, Harry Berry, Oscar Lisle Brady, Harry Brindle, Robert James Brocklehurst, James Brough, William Brown, Kenneth Bullock, Joshua Harold Burn, Gladwin Albert Hurst Buttle, Herbert Graham Cannon, Eugenia Cooper, James Arnold Crowther, Sydney Thomas Crowther, Thomas Benjamin Davie, Harold Davis, Ralph Dennell, Tom Clifford Denton, Thomas Dewar, John Bright Duguid, Alwyn Gwynne Evans, James Wight Fairbairn, Henry Thomas Flint, Alastair Campbell Frazer, Felix Eugene Fritsch, Henry Percy Gilding, Paul Haas, Charles Herbert Hampshire, Frank Hartley, Reginald St. Alban Heathcote, Albert Hemingway, Frederick Hemming, Christopher Carl Hentschel, Peter Hey, Willis Openshaw Howarth, Cecil Terence Ingold, Laurence Pollard Kendal, Wilfred Herbert Linnell, Rees Vernon Lloyd, Adam Davidson MacDonald, Henry Brown Mackie, Herbert Owen Meek, Barradale Whiddon Melhuish, Frederick Henry Newman, Donald Henry Richardson, Ivy Roberts, Jack Morris Rowson, George Reginald Allen Short, Eric Arthur Spaul, George Arthur Sutherland, Richard John Tabor, George Edward Trease, William Somerville Vernon, William Wardlaw, Harry William Webb; *Scotland*: Thomas Alty, Harry Berry, Joseph John Blackie\*, James Emyris Bowen, Carl Hamilton Browning, Hugh Hannay Campbell, Edward Provan Cathcart, James Wilfred Cook, William Murdoch Cumming, Henry Dryerre, Karl George Emeleus, Harold Munro Fox, Robert Campbell Garry, Richard Arbuthnot Reynell Gresson, Robert Downes Haworth, Eldred John Holder, Matthew Verden Hunter, David Jack, James Pickering Kendall, David McCall, George Hartley Macmorran, John Nellies, Alexander Nelson, James Paton, Alexander David Peacock, Ernest George Vincent Percival, Gordon Perrins, James

\* Since deceased (*C. & D.*, November 9, p. 588).

Ritchie, Mowbray Ritchie, John Montea Robertson, Sir William Wright Smith, John Spence, Walter Stiles, Henry Stout, James Prior Todd, John Walton, George Macfie Wishart, Charles Maurice Yonge.

## LOCAL NEWS

**Sheffield Social Evening.**—At the opening of the winter session of the Sheffield Branch of the Pharmaceutical Society recently, the programme consisted of monologues, songs and competitions. A "Folks Quiz" proved a popular feature.

**Dr. Clitherow at Middlesbrough.**—At a meeting of the Tees-side Branch of the Pharmaceutical Society held recently in Middlesbrough with Mr. A. W. Harrison in the chair, Dr. R. Clitherow, M.P., again urged that qualified supervision of dispensing under the National Health Service Act should be more accurately defined.

**Public Pharmacists at Halifax.**—A meeting of the North-eastern Branch of the Guild of Public Pharmacists was held recently in Halifax when Mr. Stephenson reported on a meeting of the Guild's Council on November 23. After tea Mr. Hendry gave a talk on gastric surgery.

**Kent Penicillin Lecture.**—Mr. A. I. Bacharach, M.A. (Glaxo Laboratories Ltd.), at a recent meeting of the West Kent Branch of the Pharmaceutical Society, gave a lecture, illustrated with lantern slides, on the manufacture and properties of penicillin. A number of doctors were present at the lecture.

**Dublin Medical Exhibition.**—The Irish Medical Exhibitors Association proposes to hold a trade exhibition in Dublin in connexion with the International Gynaecological and Obstetrical Congress to be held in Dublin during July 1947, to celebrate the bicentenary of the Rotunda Hospital. A large number of wholesale and manufacturing chemists, manufacturers of electro-medical equipment and surgical instruments, and medical publishers have expressed their intention to exhibit.

**Manchester Whist Drive.**—Prizes in a whist drive, part of a ladies' evening held by the Manchester Pharmaceutical Masonic Association recently, were won by the following:—*Ladies' prizes*: 1, Mrs. Hugall; 2, Mrs. Johnstone; 3, Mrs. F. Gee; highest score in first half, Mrs. Tyler; second half, Mrs. Bruckshaw; hidden numbers, Mrs. Latter, Mrs. F. Wilse; lowest

re, Mrs. King; gentlemen's prizes: 1, W. H. Dickinson; 2, Bro. Tyler; lowest prize, Bro. Bostock. For the dancing which followed, Bros. Creer and Wild acted as masters of ceremonies.

**West Sussex Officers.**—At the annual meeting of the West Sussex Branch of the Pharmaceutical Society held in Worthing recently, the following officers were elected:—*Chairman*, Mr. C. H. Smith, Worthing; *Secretary*, Mr. B. Hutchinson, Rectory Road, Tarring, West Worthing; *Treasurer*, Mr. W. F. Turner, Worthing. J. K. Irvine (vice-president, Pharmaceutical Society) spoke on "The Prospects of Pharmacy in the New Health Service," explaining the way in which the service would be organised. Tributes were paid to Messrs. G. M. Mockford and G. W. Eaton on their retirement from office.

**Presentation at Mansfield.**—At a recent meeting of the Mansfield Branch of the Pharmaceutical Society Mr. T. Reid, (a member of the Society's Council), gave a report survey of the National Health Service Act, and said pharmacists would have cause to fear from health centres so long as retail pharmacies gave an adequate service to the public. A collection on behalf of the Benevolent Fund amounted to £4. A wrist-watch was presented to Mr. W. O. Pegg (chairman) in recognition of his long service as secretary of the Notts Pharmaceutical Committee. The presentation was made by Mr. W. Lee (chairman, Notts Pharmaceutical Committee).

**Finances Discussed at Sheffield.**—Talking on "Recent Activities of the Pharmaceutical Society" at a recent meeting of the Sheffield Branch of the Pharmaceutical Society, Mr. T. Heseltine said that the Society's inspectors protected the interests of the law-abiding chemists. He contrasted the Benevolent Fund, from which ninety annuitants each received £50 a year, the non-profit-making convalescent home with an income of £11,000 a year, and the War Aid Fund, with a good financial balance available to all chemists who suffered financially because of the war, with the Society's College, which, it was anticipated, would show a deficit of £5,000 in 1951-52. Mr. Heseltine discussed suggestions that the Council should be elected on a regional basis or on an occupational basis, and that there should be one register for all pharmacists who would be known as "Pharmaceutical Chemists," while the title "Fellow of the Pharmaceutical Society" would be applied to those holding the Ph.C. diploma.

## SCOTTISH NEWS

**Dundee N.H.S. Discussion.**—Mr. W. J. Tristram, addressing a recent meeting of the Dundee Branch of the Pharmaceutical Society, said pharmacy had done well in the negotiations leading up to the National Health Service Act, largely through the efforts of the Joint Committee on a National Pharmaceutical Service. Mr. A. R. Lowson presided, and a vote of thanks to the speaker was proposed by Mr. S. Anderson.

**Aberdeen Prize-giving.**—Mr. G. M. Cruickshank, Turriff, presided at the half-yearly meeting of Aberdeen Branch of the Pharmaceutical Society held recently. Dr. J. Tait (resident secretary in Scotland, Pharmaceutical Society) spoke on pharmaceutical aspects of the National Health Service (Scotland) Bill. Dr. Tait also presented the following awards:—*Tocher medal*, Mr. P. Buchan, Cairnbulg; *Petrie Trust bursary*; Mr. E. Fraser, Culter; *runner-up*, Mr. G. Dickie, Culter; *Paterson prize*, Mr. D. Lamb; *Boots' prize*, Miss Ethil Milne, Aberdeen. Tributes were paid to Dr. West (Robert Gordon's Technical College) and Mr. A. A. Meldrum for their work in the inauguration of the Tocher medal.

**Glasgow Discussion.**—At a recent meeting of the Glasgow Branch of the Pharmaceutical Society Mr. W. J. Tristram said he had found that pharmacy in Denmark and Sweden was conducted at a high professional level. Pharmaceutical services in Britain were far behind those in some European countries where only the pharmacist was recognised as qualified for pharmaceutical work. The policy of those negotiating on pharmacists' behalf with the Minister of Health had been to insist that pharmaceutical work under the new service should be done only by pharmacists. The pharmacist should be represented at every level at which pharmaceutical problems could arise. The speaker outlined the organisation of the new scheme and said that no increased representation had been gained on the Central Health Services Council. In preparation for the forthcoming discussion on terms, a table had been prepared showing the cost of a pharmacist's training, with comparative figures for other professions. In only five of the other professions shown was the cost greater. Mr. Lawrie, in discussion, suggested that the use of stock formulas would cheapen the whole art of dispensing. Mr. Andrew Officer said a golden apple had been dangled in front of the English pharmacists; he hoped it would not prove to be gilded.



## LEGAL REPORTS

### Hospital Pharmacist's Drug Store.—

Unusual circumstances were the occasion of a prosecution under the Pharmacy and Poisons Act 1933 at Pudsey, Yorks, magistrates' court, on December 11, when Frederick Alastair Glen, M.P.S., Littlemoor Road, Pudsey, was summoned on two counts under the Act. Glen was not in court, but a plea of "guilty" was submitted on his behalf by his legal representative. For the Pharmaceutical Society, which brought the prosecution, it was stated Glen was, in fact, a qualified pharmacist employed as a dispenser at Leeds General Infirmary, but also conducting a drug store at Pudsey. On Glen's return from the Forces he wrote to the Society asking if he would be conforming with the Act in selling drugs at the shop, which he proposed to reopen although he himself could not be there all the time. The Society, wishing to be "helpful and tolerant" in such circumstances to a young man just back from the Forces, "stretched the law" a little and wrote saying that provided no drugs containing poisons were sold during his absence it would be permissible for the shop to keep open in his absence, and he could give full pharmaceutical service when he was there. An inspector who visited the shop later found he had done nothing of the kind. Certain purchases were made by the inspector in Glen's absence; the inspector then went to Leeds Infirmary, "in a helpful manner," saw Glen there and gave him certain advice. On the date of the alleged offences, the inspector again visited the shop and found Glen was not conforming with the advice previously given. In Glen's absence, he purchased a bottle of cough syrup containing a morphine derivative. Defending solicitor said: "I don't think I have ever entered a court with such feeling of indignation on behalf of a client as I do this morning." On the one hand they had a large Society. "formed, I am told, for the protection of the public" and on the other, "a very little chemist in Pudsey." Mr. Glen bought his shop in 1939, giving a considerable amount of money for it. He was then called up for National Service. On his return he was directed to employment at Leeds Infirmary, where he was acting as dispenser. He could not afford to close down the shop, so he wrote to the Society and, having received their reply, employed an assistant. He went to the point of clearing every single poisonous drug out of the shop so far as he knew, and put them into

a locked cupboard of which he kept the key. The sale of other articles continued. Unfortunately, he had overlooked bottles of cough syrup prepared by a previous owner. One was bought by the inspector. The poison content was 0.0046 cent. of the total. The inspector, questioned by the clerk, agreed that he had not any but the two bottles, and that the cupboard was locked as stated. The chairman of the magistrates said Glen would fined 10s. on each count, but the magistrate did not feel disposed to add any costs.

**Appeal Dismissed.**—The King's Bench divisional court, London, on December 19, dismissed an appeal by Oswald Easton, 10, Queens Road, Egham, Surrey, against his conviction by Chertsey justices on a charge of contravening Section 8 (1) of the Pharmacy and Medicines Act, 1941, by taking part in the publication of an advertisement referring to an article Tassa in terms calculated to lead to its use in the treatment of human beings suffering from tuberculosis. He had been fined £40, with £5 costs. According to the case stated by the magistrates, the appellant, in April 1941, caused an advertisement to be published "Health and Life" which stated that Tassa contained the only antiseptic both harmless and efficient in almost every form of disease and that full information could be obtained on application to an address he gave. On April 4 the report of Mr. William Rodger (an inspector of the Pharmaceutical Society) caused a letter to be sent to the appellant who, in his reply, stated that Tassa was much superior to penicillin and cured both cancer and tuberculosis. The letter inclosed a circular headed "T Antiseptic Treatment with Tassa." For the appellant, it was claimed that, in the circumstances, the letter was not an advertisement within the meaning of the Act, as that the word "advertisement" in the Act implied publicity. Without calling for counsel for the respondent, Lord Goddard said the justices had come to the only possible conclusion. If they were not right every vendor of a "quack" remedy could avoid the Act by sending in an advertisement to a periodical and then following up with a circular to those who applied for particulars, supplemented by a letter, saying it was a cure for diseases when the Act precluded him from offering it as a cure. The appeal was accordingly dismissed with costs.



## TOPICAL REFLECTIONS

### Pharmacy in Australasia

The pharmaceutical conferences recently held in Adelaide, Australia, deserve the place you have devoted to them (pp. 780, 781-85). As you remark, "Many facts have converged to which the British pharmacist, less than his Australian *confrère*, may not give attention . . . ;" and we have to thank you once more for giving publicity to the affairs of a distant part of the British Commonwealth and Empire. Those of us who do not keep in constant touch with Australasian conditions may have been startled by reading that a forty-hour week is in force in New Zealand. The result is regarded as quite satisfactory; "turnovers are not suffered, and any move to revert to the old order would be bitterly contested." Again, the average price per preparation has risen during the past ten years from 2s. 6d., or just over, to 4s. 3d. Dismissing now accounts for about 30 per cent. of pharmacy turnover in New Zealand; an increase in this percentage more than compensates for any reduction in sales of proprietary articles." The comment that the British and United States pharmacopoeial authorities are ill-informed on Australian eucalyptus oil will, no doubt, be duly pondered by them; and there will be general agreement that the flora of that continent could be exploited medically and pharmaceutically. The "live" character of the references referred to is indicated by the decision to combine the pharmaceutical activities of the various Australian states into a federal body. This and a good deal of our business having been transacted, the references—I note that you use the plural—must rank among the most successful of their kind.

### Legibility in Scotland

Your report of the December meeting of the Council of the Pharmaceutical Society of Great Britain (p. 776) includes the surprising news (at any rate, it surprises me) that the Education Committee of the Council has been asked by the board of examiners in Scotland to draw attention to a "tendency to illegibility" in the handwriting of the examination candidates. Why this strange phenomenon? Is there something in the atmosphere of Caledonia stern and that predisposes to scrawling? What is the Committee intends to take I do not know; but the trouble is not a new one. Writing to Hester Thrale (then aged eight) on June 2, 1783, about her studies,

Samuel Johnson made the following remarks: "Very few write their own names in such a manner as that if they stood alone they could be read. I have lately seen letters of which neither those to whom they were sent nor any to whom they have been shown are able to discover the abode of the writer, though he has spread it widely enough upon paper. This inconvenience is easily avoided by writing all such words in single letters without ligatures, for it is by joining them that they are made obscure, as *Thrale, Thrale*." Before typewriters became common, journalists were advised to adopt this course with unusual words in order to help printers.

### Scheele

One of the anniversaries of the present week ought not to pass without comment. On December 19, 1742, Carl Wilhelm Scheele was born. In his forty-three years of life he discovered an astonishing number of chemicals, organic and inorganic; and this achievement is the more remarkable because he was a provincial apothecary, carrying on business in the Swedish town of Köping. The excellent account of his life and work by Mr. William Mair published, with illustrations, in your issue of December 24, 1938, includes the following list of acids first prepared by him: Organic acids, tartaric, citric, benzoic, lactic, gallic, pyrogallic; inorganic acids, nitric, arsenious, tungstic, molybdic, hydrocyanic. Every British apprentice is, I suppose, able to answer the question, "What is meant by Scheele's acid?" But the substances I have mentioned do not comprise the whole of this great investigator's discoveries. So wide was his scope that we need not be seriously concerned to award priority in isolating oxygen to him or to Priestley. Both of these chemical pioneers had the good fortune to live in an age of scientific enlightenment. Among their contemporaries were Linnæus, Lavoisier, and Joseph Black. Such men were not so much cut off from each other as has sometimes been supposed, though correspondence called for the exercise of patience and travelling was in most circumstances an ordeal. Scheele was more fortunate in his worldly affairs than either Priestley or Lavoisier, one of whom was virtually driven from his country and the other was guillotined. The relics of the Swedish scientist preserved in Stockholm testify to the continuing regard of his countrymen.

Xrayser

## COMPANY NEWS

**D. DEVON, LTD. (P.C.).**—Capital £1,000. To carry on the business of manufacturing chemists, etc. Daniel Devon, director. R.O.: 30 Norfolk Place, London, W.2.

**ALLEN & LLOYD (WHOLESALE), LTD. (P.C.).**—Capital £100. To carry on the business of manufacturing chemists, etc. Sidney Sayer, M.P.S., and Edward J. Penn, directors. R.O.: Nella Works, Brighton Road, Aldershot, Hants.

**R. J. PITCHFORTH, LTD. (P.C.).**—Capital £1,000. To carry on the business of wholesale, retail and dispensing chemists and druggists, etc. Rupert J. Pitchforth and Mrs. Daisy F. Pitchforth, directors. R.O.: 3 Market Place, Chalfont St. Peter, Bucks.

**ROBERT STEWART (CHEMIST), LTD. (P.C.).**—Capital £1,500. To acquire the business of chemist and druggist carried on at 1 Ferguslie, Paisley. Mrs. Isabella Stewart and John N. Mair, M.P.S., directors.

**NORTHWEST CHEMICAL INDUSTRIES, LTD. (P.C.).**—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, etc. Albert Weil, 36 Grove House, Waverley Grove, London, N.3, director.

**HERON PRODUCTS, LTD. (P.C.).**—Capital £10,000. To carry on the business of chemists, druggists, etc. Charles W. Morgan and Douglas L. Armstrong, directors. R.O.: 21 Hermitage Road, Edgbaston, Birmingham.

**W. M. GARDNER & Co., LTD. (P.C.).**—Capital £1,000. To carry on the business of manufacturing, dispensing, research and analytical chemists and druggists, etc. First directors are not named. R.O.: 68 Kilburn Park Road, London, N.W.6.

**MOGG & POMEROY, LTD. (P.C.).**—Capital £1,500. To acquire the business of chemists previously carried on by Betty A. Phillips and Richard A. Mogg at 17 Meteor Street, Cardiff. William R. Pomeroy and Mrs. Alice E. Mogg, directors.

**JESSE BOULTON, LTD. (P.C.).**—Capital £2,500. To carry on business of wholesale, retail and manufacturing chemists, druggists and opticians, etc. Thomas J. Gilmour, M.P.S., and Flora E. Gilmour, directors. R.O.: 25 Guildhall Street, Folkestone.

**CHEMICAL PLANT SUPPLY Co., LTD. (P.C.).**—Capital £1,000. To carry on the business of manufacturing chemists, etc.

George E. Tupholme and Charles B. Jarv directors. R.O.: Tome Works, Carwood Road, Sheffield, 4.

**PEAK'S CASH CHEMISTS (MANCHESTER) LTD. (P.C.).**—Capital £500. To acquire the business of a chemist now carried on by Ian M. Stewart at 322 Oldham Road, Manchester. John Peake, William Peake and Walter S. Mitchell, directors.

**VIENNE (PARFUMS), LTD. (P.C.).**—Capital £100. To carry on business of manufacturers of and dealers in perfume powders, ointments, lotions, creams, toilet requisites, etc. Jacqueline Winerbett and Woolf Winerbett, directors. R.O.: 4 Berners Street, London, W.1.

**MRS. POMEROY, LTD. (P.C.).**—Capital £20,000. To carry on the business of manufacturers and distributors of and dealers in hair, skin and toilet preparation oils, perfumes, soaps and pomades, etc. Edgar J. Moseley and David A. Hampshire, directors. Solicitors: Holbrook & Co. Derby.

**NEWTON SMITH (CHEMISTS), LTD. (P.C.).**—Capital £1,000. To acquire the business of a chemist and druggist now carried on by Louise Smith at West End, Bedlington, Northumberland, as "Newton Smith. Mrs. Louise Smith and James S. Anderson M.P.S., directors. Solicitors: Frank Ridley, Blyth, Northumberland.

**H. S. WALKER & Co., LTD. (P.C.).**—Capital £3,000. To carry on the business of manufacturers of and dealers in perfumes, scents, soaps, pastes, powders, chemical and other preparations, etc. Hugh S. Taylor, John F. Murphy and Roy Cuzner, directors. R.O.: 170 Kensington High Street, London, W.8.

**MORGAN & GEORGE, LTD. (P.C.).**—Capital £12,500. To acquire the business of manufacturing chemists previously carried on by Morgan & George at 74 William Street, Ystrad, Rhondda. Arthur L. Morgan, Mrs. Rachel Gillanders, David M. Morgan, Mrs. Mary George and Mrs. Elizabeth S. George, and Ivor E. Evans, directors. R.O.: Bank Buildings, 1-3 Toff Street, Pontypridd.

**KAY BROTHERS, LTD.**—The company announces that Mr. D. L. D'xon, M.P.S., Mr. H. K. Hartley, B.Sc., F.R.I.C., and Mr. G. Thompson Wilson, M.P.S., have been appointed to the board of directors.



## BIRTH

**MACKINNON.**—On December 12, Jean E. Ralley), the wife of Eoin Cameron MacKinnon, M.P.S., Market Place, Langholm, Dumfries, of a son.

## DEATHS

**CALDER.**—Recently, Mr. Robert Calder, Wilson Avenue, Kilmarnock, aged seventy-two. Trained as a chemist, he joined Rankin & Borland, manufacturing chemists, Cheapside, Kilmarnock, eventually becoming manager of the firm's aerated water department. Over twenty years ago he acquired the aerated water interests of William Rankin & Co., and established the firm of Calder & Co., wholesale and manufacturing chemists.

**COLLINGS.**—On December 8, Mr. Ellis Arthur Collings, M.P.S., 12 Jubilee Road, Lancaster, aged sixty-five.

**DAVIES.**—On December 4, Mrs. H. R. Davies, the wife of Mr. Henry R. Davies, M.P.S., 30 Hebron Road, Clydach, Swansea.

**GOWER.**—On November 20, Mr. Isaac Gower, M.P.S., 85 Holton Road, Glamorgan. Mr. Gower qualified in 1920.

**O'CALLAGHAN.**—On December 13, Dr. Malachy Joseph O'Callaghan, M.P.S.I. A native of Limerick, Dr. O'Callaghan was educated at St. Munchin's College and in Paris. A gold medallist of the Pharmaceutical Society of Ireland, he was for many years an examiner for the Society. He was co-author with Mr. A. F. Collins of a text book on botany and *materia medica*. He is survived by his wife, three sons and four daughters. Dr. O'Callaghan was registered as a pharmacist in 1911.

**PAILING.**—Recently, Rev. William Percy Pailing, Ph.C., 53 Antrobus Road, Sutton Coldfield, Warwickshire. Born at Tipton, Staffs., Mr. Pailing qualified as a chemist and druggist in 1909 and passed the Pharmaceutical chemist examination the following year. After experience as an analytical chemist in Birmingham he entered Regent's Park Baptist College, London, and in 1914 was accepted by the Baptist Missionary Society for work in China, where he stayed for over twenty years as missionary. He joined the staff of the School of Medicine, Cheeloo University, Tsinan, Shantung, where he became professor of *materia medica* and pharmacy. During the recent war he was interned by the Japanese for three and a half years, but returned to this country in November 1945.

## WILLS

Mr. PERCY BARRS, M.P.S., 106 Kensington Church Street, London, W.8, left £2,933, with net personalty £2,714.

Mr. GOVAN HENRY SCOTT, M.P.S., 7 St. Margarets Road, Torquay, left £16,404, with net personalty £16,330.

Mr. JAMES BAIRD HARKNESS, M.P.S., 36 Alder Road, Liverpool, left £17,085, with net personalty £16,115.

Mr. JAMES HENRY WOODWARD, M.P.S., Treco, Fydeall Rowley Estate, Boston, Lincs, left £2,505, with net personalty £1,065.

Mr. WILLIAM THOMAS FROST, J.P., M.P.S., 15 Bulkington Avenue, Worthing, Sussex, Mayor of Worthing 1927-29, left £3,395, with net personalty £844.

Mr. JAMES DOUGLAS FOGGO, M.P.S., 11 Sunny Road, Churchtown, Southport, Lancs, left £3,029, with net personalty £2,159.

Mr. BENJAMIN HERRIDGE BUTLER, M.P.S., 18 Morgan Road, and 195 London Road, Reading, left £17,497, with net personalty £10,909.

Mr. WALTER LLOYD, 60 Goulden Road, Withington, Manchester, surgical rubber merchant, left £1,616, with net personalty £1,179.

Mr. DAVID ELLIS, M.P.S., 4 Devonshire Road, Sherwood, Nottingham, and Loscoe Road, Carrington, Notts, left £3,972, with net personalty £3,309.

Mr. JOHN GARWOOD EVERETT, Ph.C., 2 June Avenue, Bromborough, Cheshire, formerly of 151, Praed Street, Paddington, London, W.2, left £409.

Mr. TOM SWIFT PEACOCK, J.P., Summerhill Grange, Kingswinford, Staffs, deputy chairman of Singleton & Cole, Ltd., left £239,477, with net personalty £207,471.

Mr. JOHN JAMES SPILMAN, M.P.S., 41 Village Road, Garden Village, and 179 Holderness Road, Hull, left £16,162, with net personalty £11,031.

Mr. SYDNEY DUNSTAN, M.P.S., 45 Linden Road, Gosforth, Northumberland, chief pharmacist, Newcastle Royal Infirmary, left £2,085, with net personalty £1,240.

Mr. PERCY SPARKS, 6 Conway Road, Wimbledon, London, S.W.19, a former director of Boots Cash Chemists (Southern), Ltd., and for many years manager of the company's London warehouse, left £17,098, with net personalty £15,488.



# THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

**PENICILLIN** lozenges were the subject of a question on December 16, when Mr. J. LEWIS asked the Minister of Supply the demands from the Service Departments for such lozenges since January 1, 1946, with details of the purposes for which they were used and the average unit content per lozenge supplied.

MR. JOHN WILMOT: Demands total 515,000 lozenges, the penicillin content of which is 500 units per lozenge. The purposes for which they are used are a matter for the respective Service Departments.

## Linseed Oil

SIR FRANK SANDERSON asked the Minister of Food on December 16 whether, in view of the shortage of linseed and linseed oil in the United Kingdom, he would state the total amount it was anticipated would be imported between that date and June 30, 1947, from the Argentine and India.

DR. EDITH SUMMERSKILL (Parliamentary Secretary): The international allocations of oils and oilseeds for 1947 have still to be settled. We hope to obtain as much as possible and to ship it promptly. I am afraid it is not possible yet to say how much will arrive before June 30. . . . I have seen widely varying unofficial estimates of the size of the new Argentine crop of linseed, but I know of no official estimate. The Indian crop is later and no estimate of its size has been made. The international allocations of these crops are under consideration by the International Emergency Food Council, but decisions have not yet been taken.

THE MINISTER OF FOOD (Mr. John Strachey) explained to SIR WALDRON SMITHERS on December 17 that the controlled price of linseed oil had been raised to cover the increased cost in the present conditions of extreme shortage.

## Bottle Shortages

A statement about the continuing shortage of bottles for soft drinks and imported wines was made by MR. H. MARQUAND in reply to MR. T. C. SKEFFINGTON-LODGE. Mr. Marquand said "Supplies of all glass bottles are still insufficient to meet demand although output generally is well above the pre-war level, and is increasing. Priority is given to the production of bottles for milk, welfare foods and medicines. The output of soft drink bottles so far this year

has been running at a higher rate than 1938. Separate output figures are not available for wine bottles, but home production is being supplemented by imports which are being licensed freely. We are doing all we can to help the industry increase production. Meanwhile the public can assist by returning their empty bottles."

## Ginger

SIR WILLIAM DARLING asked the President of the Board of Trade if, in consultation with the Minister of Food, he was unable to say when imports of preserved ginger might be resumed from China.

SIR STAFFORD CRIPPS: Negotiations are at present being held which will, it is expected, result in imports of preserved ginger in the near future.

## Exported Glue

MR. F. J. ERROLL asked the President of the Board of Trade what steps he was taking to secure the retention in this country of all domestically manufactured glue, in view of the shortages of this material which were at present restricting production in certain industries.

SIR STAFFORD CRIPPS: Since June export licences for glue have been granted only to the minimum extent necessary to maintain contact with important overseas markets, and I do not think it desirable in the national interest to restrict them further.

A reply to Mr. Erroll by Mr. H. MARQUAND (Secretary for Overseas Trade) on December 24 gave the export figures for animal and fish technical gelatin, glue and size as 95 tons in August, 152 tons in September and 92 tons in October.

## Deaths from Post-vaccinal Encephalitis

MR. S. P. VANT asked the Minister of Health on December 17 what steps were being taken by his Department to reduce the number of cases of and deaths from post-vaccinal encephalitis to which reference was made in the recent report of the Chief Medical Officer of his Department for the six years of war; and whether he was in position to report any further development in connexion with the experiments on the production of chick-embryo vaccine lymph to which reference was made in the annual reports of the Chief Medical Officer of his Department for 1934 and 1938.

**MR. ANEURIN BEVAN:** Encephalitis is a severe complication of measles, mumps, chickenpox, influenza and other conditions, including vaccinia. The risks of the complication may be greatly minimised if primary vaccination is carried out in early infancy, as has been frequently emphasised by the Chief Medical Officer of my Department, and not left until a child has reached school age or early adolescence. Experimental work of chick-embryo vaccine has continued in an endemic smallpox area in India, but there is as yet no evidence that it confers adequate protection against smallpox or that its employment does not involve a risk of encephalitis.

#### Infants' Soap Ration

On December 18 **MR. COLLINS** asked the Minister of Food if he would make available soap for infants up to two years of age the additional soap ration at present allowed to babies up to the age of twelve months.

**MR. JOHN STRACHEY** replied that it

would take about 4,000 extra tons of soap a year to make the concession. "In the present shortage of fats I am sorry I cannot do it."

#### Mass Radiography

On December 19 **MR. S. SHEPHARD** asked the Minister of Health how many mass-radiology sets were now in use in the country; how many persons had undergone the test; and how many cases of tuberculosis had been discovered as a result of the tests.

**MR. BEVAN:** Nineteen units are operating in England and Wales. Up to June 30 approximately 1,111,000 persons had been examined, of whom 4,200 were diagnosed as suffering from active tuberculosis conditions.

#### Scottish Health Bill

The National Health Service (Scotland) Bill received its second reading on December 19.

## PERSONALITIES

**MR. O. GRIFFITHS, M.P.S.**, has been appointed superintendent chemist of the Ketting Co-operative Society, Ltd.

**MR. E. A. PRATT** (Pratt's Drug Store, 261 London Road, Croydon) has been elected to obtain of the Central Croydon Bowling Club.

**SIR JOHN BODINNAR** is resigning his part-time appointment as Commercial Adviser to the Minister of Food on December 31.

**MR. N. THORNTON** (a director of Thornton & Ross, Ltd., manufacturing chemists, Huddersfield) made a presentation recently of an inscribed gold watch to each of seven employees who had completed over twenty-one years' service.

**MR. W. JOHN MERRICK, M.P.S.** (librarian and information officer at the Biological Institute, Evans Medical Supplies, Ltd.), has been appointed manager of the publicity department of the company at Speke. He will commence on January 1, 1947.

**MR. ROBERT EMRYS WILLIAMS** (a member of the staff of Monsanto Chemicals, Ltd., Ruabon) recently received from the King the George Medal he won while serving with the Royal Air Force. On three occasions Mr. Williams rescued men from burning aircraft.

**MR. J. W. BEGBIE**, who recently retired from the North British Rubber Co., Ltd., is now being the company's Glasgow manager

for thirty years, was presented with a cheque from the management and staff at a dinner given in his honour at Glasgow recently. His total period of service with the company was forty-three years.

**DR. W. H. GARRETT, M.B.E.** (technical director of Monsanto Chemicals, Ltd.), has been appointed a Justice of the Peace for the county of Denbigh. Dr. Garrett has been associated with Monsanto Chemicals, Ltd., since 1921, and was appointed manager of the company's Ruabon works in 1930, and technical director of the company in 1937.

**MR. JAMES BIRNIE** is giving up his position as representative of The British Drug Houses, Ltd., in North Wales and Cheshire, at the end of the year after forty-two years of continuous service with the company. **MR. P. W. BURR**, the company's representative in Lincolnshire, Leicestershire, Derbyshire and Nottinghamshire, is retiring at the same time after twenty years' service with the company in those counties.

**MR. S. A. PARR** is resigning from the general managership of the Reliance Rubber Co., Ltd., London, at the end of the year after occupying the position for fourteen years. He has been associated with the company for twenty-one years. Mr. Parr is also resigning from the chairmanship of the British Hot Water Bottle Manufacturers' Association, after a term of office of nearly three years.



## TRADE NOTES

**Token Deliveries.**—Howards & Son, Ltd., Ilford, announce that quinine salts and tablets are again becoming available, and that token quantities are now being sent out to former regular customers.

**In Ample Supply.**—Yorkshire Pharmaceutical Industries, Ltd., Rotherham, Yorks, are the manufacturers of Kentarra throat pastilles now available to the trade in boxes of three doz.

**Appeal for Funds.**—The Royal Commercial Travellers' Schools, Hatch End, Middlesex, acknowledge many gifts made towards their 101st anniversary maintenance appeal, but state that "a good deal of leeway" has still to be made up if the objective of £25,000 is to be reached.

**"Own-name" Policy.**—Wigglesworth, Ltd., Westhoughton, Bolton, Lancs, discuss on another page, the advantages of a scheme of marketing "own-name" items, and invite chemists to send a postcard for a summary of the company's experience in these matters during a period of forty years.

**Display Background.**—An item of show material designed to hold one carton of the product is available to all retailers purchasing three dozen Vola Seltzer granules, which are obtainable either from trade wholesalers or direct from the makers, Johnson Agencies (Proprietaries), Ltd., Clarendon Works, Clarendon Road, Croydon, Surrey.

**Advantages of Large Size.**—Stephen Matthews & Co., Ltd., 19 Farringdon Street, London, E.C.4, point out that, on the large size of Curicones, chemists obtain, "for one-sixth of the trouble," nearly five times the profit obtained on the smaller size. The item is on the P.A.T.A. protected list and is nationally advertised; show material is available on request.

**Adaptation Phenomena Monograph.**—The twenty-second Ettles Memorial lecture, given by Mr. E. W. Godding (Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10) on "Some Adaptation Phenomena and their Practical Significance" has been published as a 16-pp. booklet by the Association of Optical Practitioners (which incorporates the Institute of Ophthalmic Opticians and Joint Council of Qualified Opticians). The booklet, which is amply illustrated with diagrams, deals with the practical significance of the phenomena, and contains in addition a useful list of references.

**Equipment for Safety.**—In the invention of an "open" diving dress (making use of the principle of the diving bell) Mr. Augustus Siebe in 1819, the organisation of Siebe, Gorman & Co., Ltd., Neptune Works, Davis Road, Tolworth, Surrey, manufacturers of "everything for safe everywhere, on land, submerged and in the air" had its origin. The story of its "ups and downs," the ups predominating, is told in a handsomely illustrated 36-page brochure "A Record of War and Peace 1819-1946," recently issued by the company.

**Cold Hair-waving at Home.**—Material for use in the permanent waving of hair by a cold process which can be used at home are produced by "Pin-up" Cold Perm Wave, Ltd., 40-44 Fulham High Street, London, S.W.6. The process includes the use of two solutions one of which is applied to hair at night, the hair being immediately afterwards wound on a curler; and the other solution, the neutraliser, is applied about eight hours later, in the morning. Prospective users are invited to send a sample of their hair to the company for a free test wave. The "perm" is stated to last for about four months.

**Universities Appeal.**—Concerned about the fate of Universities in other countries the British Universities, through the International Student Service, are helping financially to rehabilitate University communities in France, Belgium, Holland, Norway, Greece, China, Italy, Jugoslavia and Czechoslovakia—with extensions planned for Poland and India. The international budget for the work is estimated at a minimum of £500,000. Of this the British share £100,000. The universities in this country cannot on their own provide more than a small proportion of that amount, and are launching an appeal for help. Full details, bankers' order and covenant forms may be obtained from the Secretary, International Student Service, 59 Gloucester Place, London, W.1.

**Holiday Closings.**—The following manufacturers and wholesalers have notified their intention of being closed as stated:—December 23-28, PIERSON, MORRELL & CO. LTD., Queen Road, Barnet; December 24-29, DAMANCY & CO., LTD., Harrow; December 24-30, C. R. HARKER, STAGG & MORGAN, LTD., Emmott Street, London E.1; HOWARD-TAYLOR, LTD., 94 Balham High Road, London, S.W.17; MAY & BAKER, LTD., Dagenham (urgent supplies



John Bell & Croyden, 50 Wigmore Street, London, W.1; POTTER & CLARKE, Ltd., Artillery Lane, London, E.1; R. J. POTTER CO., LTD., December 30-January 1, 1947. J. H. HAYWOOD, LTD., Nottingham.—BAYER PRODUCTS, LTD., Africa House, Kingsway, announce that their offices will be closed on December 25 and 26 (urgent supplies from W. Martindale, Wigmore Street, London, W.1); a skeleton staff will be available to deal with urgent orders on December 24, 27 and 28.

**Christmas Greetings.**—Advertisers who devote space in this week's issue to seasonal wishes include BIDDLE, SAWYER & CO., LTD., 4 Grafton Street, London, W.1; L. GOYNE, BURBIDGES & CO., LTD., London, E.6; W. B. CARTWRIGHT, LTD., Rawcliffe, Leeds; CUXSON, GERRARD & CO., Ltd., Oldbury, nr. Birmingham; FUBEX, Ltd., 27 Albemarle Street, London, W.1; C. T. FULFORD CO., LTD., 8 Royston Park Road, Hatch End, Middlesex; C. R. EAKER, STAGG & MORGAN, LTD., Emmott Street, London, E.1; LESLIE MARKS & CO., Ltd., 9 Earldam Street, Cambridge Circus, London, W.C.2; PARKE, DAVIS & CO., 50 Fenchurch Street, London, W.1; PHARMAX, LTD., 1, The House, Minorities, London, E.C.3; POTTER & CLARKE, LTD., 60 Artillery Lane, London, E.1; WALDEN & CO. (NUFIX), Ltd., Nufix Works, London, N.W.9; and WARD, BLENKINSOP & CO., LTD., 6 Hendon Place, London, W.1.

## BUSINESS CHANGES

MR. R. W. CHAMP has been appointed London manager for Alf. Harrison & Sons, Ltd., printers, Burley Road, Leeds, 4.

C. ENO, LTD., have removed their London office to 4 St. James's Street, London, S.W.1 (Telephone: Abbey 7353).

J. DEAKIN & HUGHES, LTD., have removed their office and works to 14 Roch Street, Abertillery, Mon.

INTERNATIONAL CHEMICAL CO., LTD., are moving on January 1, 1947, to Chenies Street, London, W.C.1. (Telephone: Museum 8080.)

HENRY TETLOW CO., LTD., manufacturers of Swandown cosmetics, have removed to Beresford Avenue, Wembley, Middlesex (Telephone: Wembley 2935-36).

THE BRITISH TAR CONFEDERATION and the BRITISH TAR RESEARCH ASSOCIATION have moved to Gas Industry House, 1 Grosvenor Place, London, S.W. 1 (Telephone: Stone 6119).

KETTERING CO-OPERATIVE SOCIETY, LTD., have acquired the pharmacies at 156 London Road, and 22 Silver Street, Kettering, formerly carried on by Mr. M. W. Yeomans, M.P.S.

EDWARDS, SONS & PARTNERS, LTD., are removing their Manchester offices on December 23 to Cleveland Buildings, 94 Market Street, Manchester, 1 (Telephones: Blackfriars 4948 and Deansgate 2666).

MR. LINLEY GILL, M.P.S. (formerly William George Gill) has acquired the pharmacy at 725 Romford Road, Manor Park, London, E.12, formerly carried on by Mr. J. Thomson, M.P.S.

THE BRITISH DRUG HOUSES, LTD., have appointed Mr. A. A. Edwards as their representative in North Wales and Cheshire, and Mr. G. C. Blay, M.P.S., in the Lincoln, Leicester, Derby and Notts area.

SCHURZINE PHARMACY, LTD., 12 Wellington Place, Hastings, have acquired the pharmacy at 478 Old London Road, Ore, nr. Hastings, formerly carried on by Mr. H. Edwards, M.P.S.

MR. H. FRISCHMANN, 62 Fenchurch Street, London, E.C.3, has been appointed sole representative in the United Kingdom and Eire of Congokina, Ltd., Costermansville, Belgian Congo, for the sale of crude quinine sulphate.

THE offices of Elder, Smith & Co., Ltd., sole agents for Great Britain and the Dominions for Mercurio-Europeo, are at 3 St. Helen's Place, London, E.C.3. (Telephone: London Wall 5531) and not as previously given.

## Proprietary Articles Trade Association

**Alterations to Protected List.**—*E. Griffiths Hughes, Ltd.*, Karsedrine inhalers, 16s. 6d. doz. (tax 2s. 9d. doz.), inclusive retail price 2s. (subject to usual display terms).

*Norgine Pharmaceutical Products (London), Ltd.* Increased prices, December 7. Normacol, 2-oz., 15s. 9d. doz., tax 2s. 7½d. doz., i.r.p. 2s.; 4-oz., 29s. 3d. doz., tax 4s. 10½d. doz., i.r.p. 3s. 8d.; 8-oz., 54s. doz., tax 9s. doz., i.r.p. 6s. 9d.; 16-oz., 103s. 6d. doz., tax 17s. 3d. doz., i.r.p. 13s.; 5-lb., 39s. each, tax each 6s. 6d., i.r.p. 58s. 6d.

*Roche Products, Ltd.* There is at present only one pack of Saridone tablets available, replacing those quoted in the P.A.T.A. year-book: Saridone brand analgesic tablets, bottles of fifty, 40s. doz., tax 6s. 8d. doz., i.r.p. 5s. 7d.

## THE DOCTORS' VOTE

### A survey of opinion on the British Medical Association plebiscite

THE British Medical Association recently circulated to doctors 56,671 copies of a plebiscite form asking the question, "Do you desire the Negotiating Committee to enter into discussions with the Minister on the Regulations authorised by the National Health Service Act?" (see *C. & D.*, November 23, p. 654). The result was announced on December 12. 18,972 members voted in favour of negotiations and 23,110 against. No reply was received from 14,589 members of the Association. A special meeting of the Representative Body of the B.M.A. is to be called for January 28 to consider the results of the ballot and to approve a resolution that the committee is unable to enter into discussions with the Minister.

Below is a selection of the comments evoked the decision of the B.M.A. has evoked.

#### "Wiser Counsels"

**MINISTRY OF HEALTH:** The Minister has learnt that the B.M.A. are placing the results of the plebiscite before a special representative meeting with a recommendation that the profession should refuse to discuss with him the steps to be taken to bring the National Health Service Act into operation. He hopes that before any final decision is taken accepting this recommendation, wiser counsels will have prevailed; and he feels sure that the medical profession will take no steps which would make it difficult for them to take part in the comprehensive Health Service which the people of this country so ardently desire. Meanwhile, the Minister has a clear duty to carry out the instructions of Parliament as expressed in the Act, and he can no longer postpone the consultations which are a necessary preliminary to the setting up of the administrative machinery. He is, therefore, proceeding to consult all the many other interests which will be concerned in the National Health Service. He is also considering what ought to be done—and this is a matter to which he attaches great importance—to give the medical profession the opportunity of assisting to shape, and of playing its part in, the new Service.

**DR. GUY DAIN** (chairman, B.M.A. Council) commenting on the last sentence in the Ministry's statement: That sentence may be interpreted as wishing to deal with us. It shows far less hostility than the beginning of the statement. Perhaps he is not as brave

as he appears . . . We will negotiate on the terms of the Act, which would mean no legislation, but not on the regulations of the Act as it stands. ("Evening Standard").

#### "Future is Uncertain"

**LORD HORDER:** The future is uncertain but it is not free from grave anxiety in the minds of those who, as doctors, will be expected to continue to serve the country in the future as they have done in the past. The Minister hopes that "wiser counsel will prevail." Whose counsels he does not say. The Royal Colleges, wisely or unwisely, gave no lead in the matter of the plebiscite. They are unlikely now to advise action which runs counter to that which is implicit in the vote. . . . It looks as if the next move lies with the Minister ("Observer").

**"THE TIMES":** General practitioners have several obvious reasons for disliking some of the changes which the Act is likely to make in their status and conditions of work; and the Willesden affair has no doubt helped to increase suspicion of the Labour Party among doctors. Yet they do not seem to recognise that no comprehensive medical service can be made to work without a considerable transformation in their personal circumstances, a transformation which by collaboration they could help to plan on constructive lines. . . . If it persists in refusing to attach as much importance to the general election of 1945 as it does to the doctors' ballot of 1946, it may well find that, while it is strong enough to produce confusions and resentment, it will have deprived both itself and Parliament of any chance of reaching a compromise.

#### "Doctors' Responsibility"

**"OBSERVER":** For they [the doctors who voted against negotiation] are standing for a principle—the principle of the doctor's unique responsibility to his patients, on which the trust of the patient in his doctor depends. . . . The resisting doctors recognise this; but the present Act seeks to obtain benefits by methods which they cannot reconcile with their conscience and sense of medical duty. They are standing on a moral issue and for this they should be given credit, even by their opponents.

**"NEWS CHRONICLE":** We cannot believe that the B.M.A. will continue its obstructive attitude when it makes its final decision next month. If it does, the doctors



all lose the support of many people who are quite prepared to listen to their legitimate grievances.

**"DAILY MAIL"**: The noble art of healing flourishes and progresses only in conditions of absolute freedom. Where it is restricted by prejudice and dogma it degenerates. Socialism is a dogma which is not yet learned to reconcile itself with liberty. Until it does so the doctors are not to insist upon the untrammelled use of their skill and knowledge.

**"MANCHESTER GUARDIAN"**: Their [the doctors'] leaders have taken it upon themselves to regard the result of the plebiscite as giving them a "sufficient majority" to justify their withdrawal from the negotiating committee. . . . Meanwhile, however, the Minister must delay no longer his consultations with those other medical bodies such as the Royal College of Surgeons) which have already decided to give him all the help they can. The outcome may not be so acceptable to the majority of general practitioners as is desirable in the interests of all concerned, but the Minister will surely give the B.M.A. a chance to vindicate its common sense and public spirit before he makes final decisions.

### Crux of the Problem

**"DAILY GRAPHIC"**: The result of this plebiscite proves that doctors believe its terms are contrary to the proper principles of their profession. . . . There have been attempts, which possibly will be continued

Mr. Bevan's supporters, to split the medical profession in two over this Bill. These attempts are made by people who are deliberately blinding themselves to the crux of the problem, which is the public welfare.

**"EVENING STANDARD"** (London): It has not yet been realised by the B.M.A. leaders, when they embarked on this plebiscite, that they were laying themselves open to a perilous situation. That has, in fact, come about. The vote reveals a big split in the opinion of the profession, and this cannot be allowed to harm the Association and weaken its influence. The situation has not, however, yet deteriorated beyond remedy. The representative body," to whom the question of rejecting negotiations is to be put, has six weeks in which to reflect upon the consequences that would result from approval of it. Compromise is still a sound trait of the British character, and does not necessarily spell weakness or lack of principle. The public, with the National Health Service now law, will demand that

it be tried out in practice. The B.M.A.'s true duty is to co-operate.

**"REYNOLDS NEWS"** (medical correspondent): The B.M.A. has not yet divulged the way in which different age groups voted. But taking the vote of the young Service men as a guide, it is safe to assume that the 23,000 "No" voters included most of the retired and aged practitioners who will never work in the new service. That number is constantly growing, and at the moment must amount to at least 8,000.

### "CENSUS" OF MANCHESTER SCIENTISTS

A SURVEY was carried out recently by the Manchester Joint Research Council on the employment of university graduates in the industries of the Greater Manchester area.

Firms forming a representative cross-section of firms in the area were invited to furnish information on the extent to which the employment of graduates would be increased over the numbers employed prior to 1939. The following table gives some of the more important information abstracted from the replies. Figures given are percentages.

	Engineering	Chemical	Textile	Miscellaneous
Increase in number of firms employing graduates, compared with 1939 ..	35	21	39	12
Increase in number of graduates to be employed, compared with 1939 ..	62	100	45	70
Firms offering openings for graduates in :—				
Scientific (research and development) capacity ..	41	56	67	67
Technical capacity	87	83	77	78
Managerial capacity ..	59	70	64	44

On the results, the call for graduates for service in industry is estimated to be 80 per cent. above pre-war figures, and firms employing 85 per cent. of these graduates have stated a preference for men who have had experience in research before entering industry. The smaller firms lay greater stress on technical training for graduate staff.



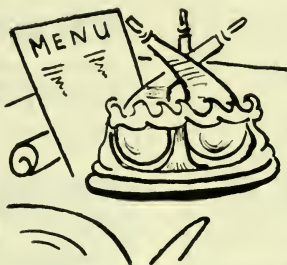


# BOTTLE-NECKS ILLUSTRATED

With acknowledgements to a "Times" correspondent, who drew attention recently to such curiosities of the glass-blowing industry as "ironed-out", "interdependent" and "far-reaching" bottle-necks.



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DL. CXLVI DECEMBER 21, 1946 NO. 3489

## Revision of Company Law

THE text of the Companies Bill "to amend the law relating to companies and unit trusts, and to dealing in securities, and to bring the law of bankruptcy and the law relating to the registration of business names into conformity in certain respects with the law relating to companies as amended" was introduced into the House of Lords on Thursday, December 5. The Bill, which contains 109 Clauses and seven Schedules (Stationery Office, 2s.), substantially implements the recommendations contained in the report of the Cohen Committee on Company Law Amendment (Cmd. 6659) appointed in June 1943 by Mr. Dalton, then the President of the Board of Trade.

The present system of limited liability companies was reported on by the Cohen Committee as being essential to the progress and prosperity of industry and trade; the new proposals, now under Parliamentary consideration, set out to improve the structure within which that system operates. The main features of this legislation, so far as public companies are concerned, are the provision for more information to be made available to shareholders, particularly on the subject of nominee share holdings. Every limited company is to keep a "Register of Share Ownership" in which the names of holdings of owners of shares in the company, who are not the registered owners, will be entered. Trustee companies are to be exempt from this requirement.

Private companies are not exempted from the provisions for making an annual return of accounts (Sec. 43) unless it can be certified (a) that . . . nobody corporate is the holder of the company's shares or debentures, and no person other than the holder has any interest in any of the company's shares or debentures; and (b) that the number of persons holding debentures of the company is not more than fifty (joint holders being treated as a single person); and (c) that nobody corporate is a director of the company and neither the company nor any of the directors is party or privy to any arrangement whereby the policy of the company is capable of being determined by persons other than the directors, members and debenture holders or trustees for debenture holders.

The position of independence of auditors, who are directed to issue a "true and fair" view and not, as at present, a "true and correct" certificate with audited accounts is to be substantially strengthened. Auditors are to have the power to call for all information they consider necessary to carry out their duties, to attend meetings and to be heard at meetings on matters that concern them as auditors. In various ways in order to give effect to the principle of "true and fair" statements the accounts of holding companies and subsidiaries are to be extended in content.

Unless shareholders have agreed otherwise, notice to be given of the holding of general meetings is to be extended to a minimum of twenty-one days and upon application of at least 5 per cent. of the voting power or of 100 shareholders holding an average of £100 nominal capital, companies will be required to give notice of resolutions to be moved at general meetings and to circulate particulars of such resolutions. Facilities for voting by proxy and for demanding a poll are to be considerably widened.

Unless their term of office is extended by special resolution, directors are to be required to retire upon reaching the age of seventy. Tax-free payments to directors are to be prohibited unless provision for such payments operated on July 18, 1945. Directors' fees and payments made to them in connexion with the management of the company or for other services are to be

shown separately on balance sheets. The election of directors at general meetings is to be dealt with individually. In other ways the Bill proposes to weaken the present somewhat arbitrary powers of directors and to enforce the disclosure of details of their total incomes derived from the company.

Officers of the Board of Trade are to be given authority to call for the production of any books or documents they consider necessary to permit them to carry out investigations and to apply to the Court to examine persons on oath. The department is also to be empowered, under prescribed circumstances, to apply to the Court for a winding-up order.

This latest revision of company law in this country, which no doubt will receive careful scrutiny during its passage through Parliament to the Statute Book will add to the responsibilities of directors and their auditors. For shareholders the Bill provides for a much greater measure of enlightenment and control in the activities of the concern in which they have a financial interest.

### Bleached Flour and Epilepsy

A REPORT that flour bleached with nitrogen trichloride will invariably produce hysteria or epileptiform fits in dogs, reported on p. 817, is of considerable medical and veterinary importance. Wheat products, including certain dog-biscuits, have been suspected as the cause of canine hysteria by numerous workers for many years, but the suggestion that bleaching forms in flour a substance toxic to the central nervous system is a new development. It should not be assumed however that bleached flour is necessarily the only cause of canine epilepsy.

To what extent the results obtained by the experiments on dogs can be applied to the human subject is a problem which urgently needs elucidating, and it is useful to note that previous workers have been unable to detect fits in rats, monkeys, and other animals fed on sufficient wheat gluten to cause fits in dogs. Workers at the National Institute for Medical Research, Mill Hill, under Sir Edward Mellanby are now engaged in investigating the effect of nitrogen trichloride on wheat gluten, and progress in this work should be watched for pharmacological developments.

### Santa Claus, *pur sang*

HAVING no correspondent in New Jersey, we acknowledge our indebtedness to the Manchester Guardian for details of the blood and other tests that have been applied to candidates for the position of Father Christmas at stores in the city of Newark in that State. Stung, perhaps, at the amount of publicity recently accruing to a town of the same name in this country, the authorities in that city have made a bid for notoriety as the extreme champions of hygiene. Three tests are required to be passed before a man is permitted to don the white beard and red robe—a blood test, skin test, and chest x-ray. Whether there is any connexion between the first and another recent Press report that a new system of identifying criminals, far surpassing the traditional fingerprint record, has been devised on the basis of a blood test we are not able to state. Presumably, however, the intention is less to ensure the moral rectitude of those who, for however short a time, are to be the heroes of the very young, than to eliminate one possible source of infection. In pursuit of this object, the clothes of the deputy saint are to be "clean and spotless" and he must keep his hands concealed in "spotless white gloves." By ordinary standards in this country, that might be considered adequate protection for the children should he wish to indulge in a fatherly pat on the head—but not a bit of it. His gloves are in the nature of "whited sepulchres" only, for he is forbidden to touch his admirers. Contamination can be of more than one kind, of course, and perhaps it is the danger of too credulous a belief in folk-lore and fairy tales in the future citizens of America to the authorities of Newark, N.J., wish to guard against. Surely, if it were merely the physical risk of spreading infection, they would not have stopped short of imposing a face mask, or at least of introducing, with the ingenuity one expects from Americans, a beard in which a bacterial filter was judiciously concealed. We can only speculate with anxiety on the risks to which British children are no doubt being exposed in this present season, and to hope that the Ministry of Health returns of notifiable diseases will not have been unduly inflated thereby in the weeks prior to December 25.



## "PUTTING OUR HOUSE IN ORDER"

ADDRESSING Leeds Branch of the Pharmaceutical Society recently on "Putting our house in Order," MR. GRANVILLE SHAW, a member of the Society's Council) said the Council had become worried because many chemists did not seem to realise the exact nature of the law regarding the sale of strychnine. There was too great a tendency to sell it for rat poisoning.

On educational policy, Mr. Shaw said it was intended in the future to have one register only for qualified pharmacists; in the next few years it was likely that chemists and druggists would have to be pharmaceutical chemists. The intermediate examination of the Society would be abolished and all candidates would have to take the intermediate B.Sc. Within twenty-five years, he suggested, all entrants into pharmacy would have to be university graduates. Such a change would reduce the number of entrants into retail pharmacy, but judging from the ease with which multiples and co-operative societies were buying out private chemists, it would seem there were already too many.

On Health Service dispensing, Mr. Shaw said the Council was determined that the chemist should be paid properly for his dispensing and not have to undertake it at an inadequate remuneration for the sake of his business it brought into the shop. He urged every retail chemist to see whether his own pharmacy was adequately equipped to handle perhaps three times the present amount of dispensing. Chemists must be prepared to give a service which would not give rise to complaints and drive the public to the Health Centres for their dispensing.

Mr. Shaw regretted that Dr. Clitherow was directing his energies towards the idea of a combined trade union of employers and employees. He would do a far better job, the speaker thought, if he concentrated on building for employees a really vigorous union which could be comparable to the National Pharmaceutical Union of the employers. A strong employees' union was certainly needed urgently.

Answering discussion and questions, Mr. Shaw agreed that steps should be taken to check the large quantities of certain drugs, such as penicillin, which were being prescribed by doctors. MR. PAUL DOBSON urged the Council to be chary about alternative arrangements concerning penicillin until they had put into thorough order the mode of entry into pharmacy. Entry on School Certificate with five credits was not good

enough, and he was glad that on long term policy it was intended to insist on the Higher School Certificate. Even present entries should demand mathematics and one science subject as compulsory, and he saw no reason why such a change should not be made immediately. It would take seven or eight years to qualify for the B.Pharm. degree, and many students would be looking to other sources of income than retail pharmacy.

## FLOUR AND CANINE FITS

A PRELIMINARY report on work conducted recently by Sir Edward Mellanby at the National Institute for Medical Research, Mill Hill, London, shows that bleaching and "improving" flour with nitrogen trichloride (agene) produces a flour which causes canine hysteria and fits ("British Medical Journal," December 14, p. 4484). Outbreaks of canine hysteria in the U.S.A. and Britain during the past twenty years had been put down to various causes including internal and external parasites, but, latterly, nutritional factors, and particularly the bread portion of the diet, had been suspected as the cause.

For bleaching or "improving" flour, the compound, a combined bleacher and improver, appears to be the most often used substance, and it is probably used in about 90 per cent. of the flour milled in Britain for bread-making. "Agenised" and "unagenised" samples of flour from the same grist were tested by being fed to young dogs from the same litter, the diet being known to be adequate to maintain health and growth so long as untreated flour, or oatmeal was used. It was found that attacks of hysteria and epileptiform fits occurred in animals fed on the diets containing treated flour within two to four weeks, whereas the animals on the untreated flour remained healthy. A reversal of diets resulted in a sudden stoppage of fits in the affected dogs, while fits started to occur in the groups of dogs fed before on the untreated flour. It is thought that the agene gas may affect the gluten constituent of flour, producing an agent toxic to the central nervous system and possibly other organs, and work on this problem is now proceeding. Certain proprietary dog-biscuits, it is suggested, might contain "agenised" flour. "Investigations must now be made," the writer concludes, "to see whether human beings are affected by . . . flour improved by NCl<sub>3</sub>."



# PHARMACEUTICAL SOCIETY OF IRELAND

## December Council Meeting

THE December meeting of the Council of the Pharmaceutical Society of Ireland was held on December 10, Mr. J. K. Whelehan (president) in the chair. Also present were Messrs. P. A. Brady, J. Gleeson, R. Daly, C. J. Cremen, G. C. O'Neill, H. P. Corrigan, M. Costelloe, T. C. Scott, F. X. Meagher, F. Loughman, T.D., T. B. O'Sullivan, N. A. P. McKane, and J. P. Kissane. Apologies for inability to attend were received from Messrs. J. Blair and J. A. O'Rourke.

### Sales of Amphetamine

A letter was read from the Department of Local Government and Public Health requesting the Society, pending the coming into operation of legislation, to appeal to members voluntarily to limit sales of amphetamine sulphate to persons holding prescriptions for the drug from medical practitioners. The Council agreed to notify members in accordance with the wishes of the Minister.

A communication, which was noted, was received from the *Fédération Internationale Pharmaceutique*, intimating that the twelfth assembly of the Federation would be held at Zurich, Switzerland, on August 26-28, 1947.

A letter was read from the St. Vincent de Paul Pharmacists' Conference thanking the Council for their subscription of £5 5s. to the Conference and assuring the Council that the money would be put to the best possible use. An appeal on behalf of the Cork-to-Cologne Special Charity was received. The Royal Sanitary Institute wrote stating that the next Annual Health Congress would be held at Torquay, June 2-6, 1947, and inviting the Council to appoint delegates. The communication was noted.

It was reported that, of forty-five candidates who had sat for the first Pre-registration examination held by the Society under the new regulations, twenty-three had passed.

### Changes in Register

An application for restoration to the Assistants' Register from Mr. Jeremiah O'Riordan was granted. Dr. Patrick W. Rafferty, L.A.H., wrote requesting registration as a Pharmaceutical Chemist. The application was granted. The reports of the House, Law, and Schools Committees were submitted and approved. THE REGISTRAR reported on the deaths of Mr.

John Corbett, M.P.S.I. and Mr. Maurice O'Sullivan, M.P.S.I.

The following changes of address were notified:—Miss C. C. Cregan, M.P.S.I., to 2A Sandymount Green, Dublin; Mr. M. Daly, M.P.S.I., to 9 Glenarm Avenue Drumcondra, Dublin; Mr. G. P. Davin, M.P.S.I., to 11 Park Street, Dundalk; Miss S. Deakin, M.P.S.I., to Drumcollogher, co. Limerick; Mr. D. Glavey, M.P.S.I., to St. Canice's Terrace, Santry, Dublin; Mr. T. J. Hackett, M.P.S.I., to Main Street Newport, co. Tipperary; Mr. J. Hegarty, M.P.S.I., to 23 Mobbi Road, Glasnevin, Dublin; Mr. M. H. Koss, M.P.S.I., to O'Connell Street, Sligo; Mr. E. F. McCaffrey, M.P.S.I., to Fatima, Ballydoogan, Sligo; Mrs. M. McCarthy, M.P.S.I., to 9 Ailesbury Park, Ballsbridge, Dublin; Mr. J. MacEvilly, M.P.S.I., to 2 Main Street, Longford; Mr. J. Mangan, M.P.S.I., to Mountain View, Ballymount, Tallaght, co. Dublin; Mr. G. Moriarty, to Clara, Offaly; Mrs. J. Neylon, M.P.S.I., to Sieview House, Rosslare, co. Wexford; Mr. A. OhAodha, M.P.S.I., to North City No. 1 Dispensary, Store Street, Dublin; Miss M. O'Loughlin, M.P.S.I., to Kilmallock, co. Limerick; Mr. M. J. Ryan, M.P.S.I., to 8 Windsor Road, Rathmines, Dublin; Miss A. M. Buttmer, M.P.S.I., to 20 Church Street, Howth, co. Dublin; Mr. H. W. A. Sheridan, to Doonelly House, Doonelly, Sligo.

### Presentation to Mr. Daly

At this stage in the proceedings, THE PRESIDENT moved that the Standing Orders should be suspended for the pleasant purpose of presenting an oil painting on behalf of members of the Council to Mr. Richard Daly, who had recently been married. The President then made the presentation to Mr. Daly amidst applause and wished him many years of happiness. MR. DALY, thanking the Council for their gift, said he was deeply grateful for their kind thought. A present on such an occasion was always acceptable, but when it came as a complete surprise it was particularly appreciated. The licence certificate of Elizabeth Browne was signed and sealed. The following were elected Members of the Society: The Misses M. M. Coleman, V. A. Greene, and M. Heaney, Messrs. K. Banks, J. A. Cotter, J. J. Dunning, A. J. Fitzgerald, C. D. Foley, C. H. Foley, J. E. Fox, C. G. B. Higgins, G. F. Hinchy, T. Murphy, and J. D.

Sullivan. Mr. J. J. Courtney was elected Associate Member. The following applications for Preliminary Registration were granted: Pauline Mary Bridget Clarke and John Francis Grady.

#### Nominations for Membership

The following were nominated for membership: Miss A. M. Buttimer, 20 Church Street, Howth, co. Dublin; Mr. H. Cashell, Erinagree, Banteer, co. Cork; Mr. V. D. Doyle, Seaview Spa, Tralee, co. Kerry; Mr. J. O Leary, 2 Belmont Villas, Magazine Road, Cork; Mr. M. Spittle, Castle Mall, Limerick; Mr. C. Tipperary; Mrs. M. Taylor, 2 Montenotte Park, Cork; Miss B. Donovan, Drumcollogher, co. Limerick. At a meeting of the Benevolent Fund Committee, a number of grants were passed

for payment. The best thanks of the Council was tendered to the following for their generous donations to the Benevolent Fund:

Mr. R. Lynch, Ballinagh, co. Cavan; Mr. T. J. McCabe, M.P.S.I., 63 Park Street, Dundalk; Mr. W. M. Birmingham, M.P.S.I., 4 Lambay Road, Drumcondra, Dublin; Mrs. K. MacCormac, Ballinagh, co. Cavan; Mr. M. W. Lawless, M.P.S.I., High Street, Tullamore, Offaly; Mr. F. S. Westbury, M.P.S.I., 85 North Main Street, Youghal; Mr. P. J. Hogan, M.P.S.I., 45 Upper William Street, Limerick; "Anonymous," Middleton, co. Cork; Limerick and District Retail Chemists' Association; Mr. W. Hanley, M.P.S.I., 108 O'Connell Street, Limerick; Mr. V. D. Doyle, M.P.S.I., Seaview Spa, Tralee, co. Kerry.

## PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

### Coming-of-age Celebrations

The coming-of-age of the Pharmaceutical Society of Northern Ireland was celebrated on December 11, attended by more than 200 members and their friends. Mr. J. W. Storey, J.P. (president) was in the chair, and the principal guests were Mr. William Grant (Minister of Health and Local Government), Mr. G. R. Knox Mawer (President, Pharmaceutical Society of Great Britain), Mr. Eric Scales, C.B.E. (permanent secretary) and Dr. J. Boyd (Chief Medical Officer, Ministry of Health and Local Government), Dr. J. Halliday (secretary, Northern Ireland Branch, British Medical Association), Mr. David L. Kirkpatrick (a former secretary of the Society), and Mr. C. W. Young (senior lecturer in pharmaceuticals, Belfast College of Technology).

#### Co-operation with Government

"The Government of Northern Ireland" was proposed by Mr. FRED STOREY (a past president of the Society), who recalled the steps which preceded the passing of the Act of 1925 under which the Society was formed. The proposals put forward by the profession, he said, had comprised 80 per cent. of the Act. Chemists were fortunate in having a Government that was approachable, and they had been able, with the co-operation of the Ministry of Home Affairs, to settle the difficult questions which arose at that time. The Act of 1945 was more

complicated and up-to-date but if it proved as successful as the previous Act, pharmacists would have no fault to find with the Government for having introduced it. Referring to the new Health Bill, Mr. Storey said to the Minister amid laughter, "If you give the chemists what they want you may be sure that everything will be all right." The Society, he added, was anxious to help the Minister in preparing the new legislation. They might have some differences of opinion but he was sure that they would be able to get agreement, and once the law was laid down it would be carried out.

MR. GRANT, in reply, spoke of medicines and of the foible that people never finish the bottle. "I take the first spoonful under protest, the second I am forced to take, and then I put the bottle away somewhere," said Mr. Grant. "There must be millions of these unfinished bottles of medicine in the country and I wonder that chemists do not advertise and get them back again. As you don't seem to mind whether you get them back or not it may show the value of them." Congratulating the Society on attaining its majority, Mr. Grant said Mr. Storey had tried to find out something about the future plans for the health services which it was his great task to provide. There was a scheme in Great Britain but he was not going to follow on similar lines. The Minister invited the co-operation of the pharmaceutical profession in the framing of the new legislation.



Responding, Mr. GRAY thanked the Minister for his congratulations and his promise to consult with the profession. "We will carry out your suggestion and do our best to make this Bill a success," he said.

THE PRESIDENT paid a tribute to the great services to the Society of Mr. Kirkpatrick, who had been its secretary for twenty-one years, and wished him happiness in his retirement. He also introduced the new secretary, Mr. William Gorman.

### Annual Visits Suggested

MR. WALTER C. TATE (past president) proposed "The Pharmaceutical Society of Great Britain," and spoke of the cordial relations which existed between the two Societies. The Society in Great Britain had always been helpful and its officials approachable and they recalled with great pleasure the Conference in Belfast in 1935. Expressing appreciation of the visit of Mr. Knox Mawer, Mr. Tate suggested that annual visits might be exchanged by the two presidents. As a prescription for a president, Mr. Tate proposed "The spirit of courage, the tincture of kindness, the wine of comradeship, the syrup of wisdom and an infusion of leadership made up in twelve months' supply with the elixir of service."

Conveying the congratulations of the Society in Great Britain, MR. KNOX MAWER said he well remembered the wonderful time which they had had in Belfast in 1935. His Council was anxious that he should come to bring fraternal greetings and good wishes as they appreciated that the Pharmaceutical Society of Northern Ireland was upholding the best standards of pharmacy. He had had an opportunity to look over some of the recent examination papers and to see something of the work of students and he was perfectly satisfied that the standard was equal to that of England and Scotland. He thought it was most essential that that standard should be maintained and he hoped that in the near future every school of pharmacy would be part of a university. Referring to the new Health Service in Great Britain, Mr. Knox Mawer said he was satisfied that the Minister of Health intended that pharmacy should play an honourable part. Mr. Knox Mawer promised to convey to his Council the suggestion for the exchange of visits, as nothing but good could result from such a happy blending of the two Societies.

MR. JOHN MCGREGOR (vice-president, Pharmaceutical Society of Northern Ireland), proposing "The Guests," congratulated

Mr. Young on the fine type of student turned out by the College of Technology. The fact that members had no difficulty in securing appointments elsewhere showed how high was the standard. He also referred to the debt which the Society owed to Mr. Kirkpatrick.

Responding, MR. YOUNG said the Belfast College of Technology had no apology to make to Great Britain for their products. He believed that the examination standard was higher in Northern Ireland. He thought Mr. Grant need have no fear about the part that pharmacy would play in the health service. His only regret was that the skill of the pharmacist was not called upon sufficiently by the medical profession, for it was a skill that had never been exploited as it could be.

## RECENT RESEARCH

**Penicillin and Glutamic Acid Assimilation.**—As only Gram-positive micro-organisms were found to be able to assimilate glutamic acid and to concentrate it within the cell-walls, Gale & Taylor ("Nature," November 9, p. 676) decided to investigate the effect of penicillin on this phenomenon, using *Staph. aureus*. Experiments showed that during growth of the cells assimilation of the acid was prevented, but at no other time was the assimilation affected. This suggests, the authors state, that penicillin either combines with the cell wall, or produces a reorganisation of the cell wall so that the mechanism for assimilating the amino-acid is blocked. Further details of the investigation are to be published later.

**Pyridoxine in Epilepsy.**—A short series of clinical trials of pyridoxine (vitamin B<sub>6</sub>) for the treatment of epilepsy by Fox and Tullidge ("Lancet," September 7, p. 345) suggests that the compound is unlikely to be of value in that condition. Earlier experiments on rats and pigs had shown that epileptic fits could be induced by withholding pyridoxine from the diet; replacement of the pyridoxine stopped the fits. In the clinical trials on eight schoolboys, four boys received 100 mgm. of pyridoxine daily for three weeks, two received 20 mgm. daily for four weeks and then 100 mgm. daily for three weeks; and two boys received 20 mgm. daily for eight weeks. Previous anti-convulsant medication with bromide phenobarbitone, or phenytoin was continued throughout the experiment. There was no evidence of increase or decrease of fits in any case, nor was any other change, mental or physical, noted in any of the boys.



## MEDICAL ABSTRACTS

**New Penicillin Inhaler.**—A penicillin inhaler, which has been in use for some months at the London Chest Hospital, London, E.9, is described by Capper in the *British Medical Journal* (September 21, 1946, 422). An effective concentration of penicillin in the sputum can be maintained by use of this apparatus, it is stated, for longer periods than with other apparatus used. The vapour is formed by a stream of oxygen which enters the inhaler at the rate of six litres per minute. A Y-shaped glass connexion which the patient closes with his finger on inspiration only, ensures that the penicillin is not vaporised during expiration. A rebreathing bag is fitted which allows the patient to keep the mask on his face throughout inhalation.

**Lactic Acid in Osteoarthritis.**—A 0.2 per cent. solution of lactic acid, with a pH 5.2, has been injected into the hip, knee, wrist-joints of twenty-six mixed cases of arthritis recorded by Maws in the "*Lancet*" (November 9, p. 691). Considerable success was encountered. Of six wage-earners in the group, recovery was sufficient to enable all to return to their previous employment. Of the remaining twenty, mostly housewives, eighteen secured relief of symptoms and were able to resume work. Only one person, who had active rheumatoid arthritis of the wrists, showed no improvement. The method of making the injection was to sterilise the skin with Cetavlon solution in 1/1,000 acriflavine; next the skin, subcutis, muscle, and joint capsule were infiltrated with Novutox; and finally the lactic acid solution was injected. An amount of 15-20 mls of the solution was found sufficient for the hip and knee-joints, the wrist-joint requiring only from 2-5 mls. The first symptom to disappear was pain; improvement in mental outlook followed.

**Advances in Endocrinology.**—The use of oestrogens, either alone or in combination with surgical operation, in the treatment of carcinoma of the prostate has been encouraging, the beneficial effects being not merely relief of pain and urinary symptoms, but increase in weight of the patient, improved appetite, and improved general condition. Large doses, e.g., 30 mgm. per day, have been recommended (Dodds, "*Practitioner*," October, pp. 263-269). In cancer of the breast, however, oestrogens appear to be of little value. The choice of synthetic oestrogens includes derivatives of triphenylethylene, one of which, triphenylchlor-

ethylene, has been administered without ill effects over a long period for the treatment of amenorrhœa, vulvitis, menopausal symptoms, and other conditions, and for the inhibition of lactation. When given orally the duration of action was about equal to that of stilbœstrol, but, when injected, was more prolonged. The derivative,  $\alpha$ -bis,  $\alpha$ -(*p*-ethoxyphenol) $\beta$ -phenyl- $\beta$ -bromoethylene, called DBE, has been found effective in the treatment of menopausal symptoms. As the activity of triphenylethylene derivatives is small compared with the stilbœstrol series large doses have to be given, but as they are not inactivated by the liver nor rapidly excreted, and are stored in the body tissues, their action is more prolonged: this, however, makes control difficult. Doisylic acid and its naphthol derivative bisdehydrodoisylic acid are stated to possess very high potency, œstrus being produced in rats by as little as 0.1 to 0.27 of bisdehydrodoisylic acid.

**Evaluation of Barrier Creams.**—Barrier creams are creams designed to protect the skin against particular deleterious substances, but as the nature of these substances and the conditions under which they are used vary widely, it is virtually impossible to devise an apparatus which will test creams under conditions approximating to those found in practice. Sadler and Marriot maintain, however ("*British Medical Journal*," November 23, pp. 769-773), that the results of simple general tests have been well substantiated, and can give the medical or industrial welfare officer a good picture of the behaviour of creams before they are introduced to the workers. Qualitative tests devised included testing the resistance of a dried film of the cream against oils, solvents, aqueous liquids, mixtures of oils and aqueous liquids, and other "deleterious" substances, for protection against which the creams had been made. Water-repelling qualities of creams were examined by shaking the creams with water, when truly water-repelling creams were found not to disperse; and another method was to float paper coated with cream on the surface of water, the upper surface of the paper being sprinkled with icing sugar to which had been added a little dye. The paper was watched under ultra-violet light. Penetration of water caused fluorescence of the dye under ultra-violet light. The time taken for the water to penetrate was used as a measure of the water-repellant qualities of the cream.

## INFRA-RED RADIATION IN PHARMACY

A description of apparatus suitable for pharmaceutical and chemical processes using infra-red radiation as a source of heat.

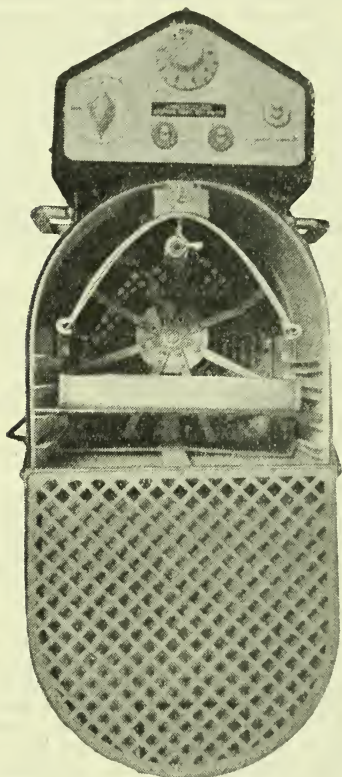
THE use of infra-red radiation for drying materials, or in distillation and evaporation processes has recently made great strides. In drying a batch of chemicals by convection much of the heat is lost by absorption in the surround-

ference; and are longer than the ultra-violet or visible range, but are shorter than wireless waves. Infra-red rays have the property of penetrating to some degree the materials they heat, so that one effect of the absorption of this energy is the transformation of the radiation into sensible heat within the absorbing material. Infra-red heating depends solely upon this effect, heat being received by the material instantly upon exposure to the radiation.

### Infra-red Driers

Typical of the infra-red drying and evaporating equipment now available is the Reavell Infra-red Drier, manufactured by Kestner Evaporator & Engineering Co. Ltd.; it is particularly advantageous for liquids that are heat sensitive, for a liquid may be evaporated rapidly at a temperature much lower than its boiling point by subjecting it to the infra-red ray and simultaneously blowing over the surface a current of air, pre-heated if necessary. The exact temperature of the liquid can be varied by altering the wavelength of the infra-red generator.

The intensity of radiation per unit area generated in this apparatus is high, and the temperature attained by the irradiated material depends partly on this intensity and partly on the wavelength used. The apparatus, a laboratory model, depicted on this page, consists essentially of a drying and evaporating unit with an external electrical control box. An infra-red generator is mounted at the focus of a reflector, and a tray rack is fitted beneath so that a parallel beam of infra-red rays will fall above the tray uniformly over its surface. The material to be evaporated or dried is mounted in the tray. The movement of air across the tray is produced by a motor-driven axial flow fan and this air can be warmed up by a spirally wound heating element fitted in front of the fan. For special purposes a sterile filter is provided, so that all air passing over the tray is fully sterilised. The power supply recommended is 10 amperes at 220-30 volts, and the apparatus is suitable for alternating current only. Reavell infra-red driers are also made to operate for continuous drying and to handle materials on a commercial scale, and are showing satisfactory results, with economic running costs. Amongst the



Laboratory infra-red drier, with door open

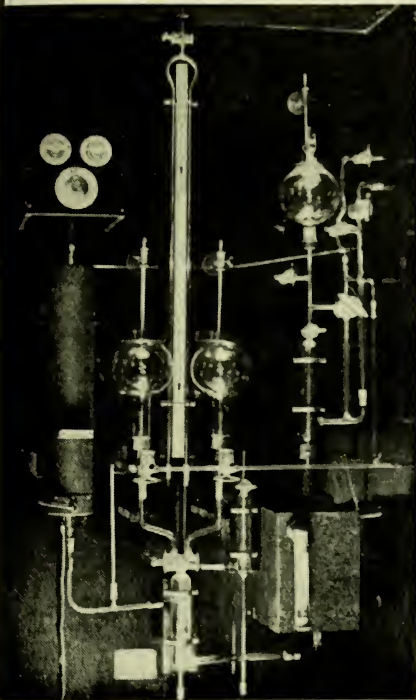
ing atmosphere, but infra-red rays have the advantage that they may be transmitted through the atmosphere, other gases, or a vacuum, without any appreciable loss of heat occurring. While the rays are produced by coal, wood, or gas fires, or by electric heat, in infra-red plant the rays are emitted from electric bulbs or gas burners. They are of various wavelengths; have the properties of reflection, deflection and inter-



materials successfully handled in these driers are sulphonamides, ascorbic acid, and pearl lue.

### Infra-red Evaporators

If infra-red radiation is substituted for steam in evaporating plant, and in place an evaporating pan a material which is



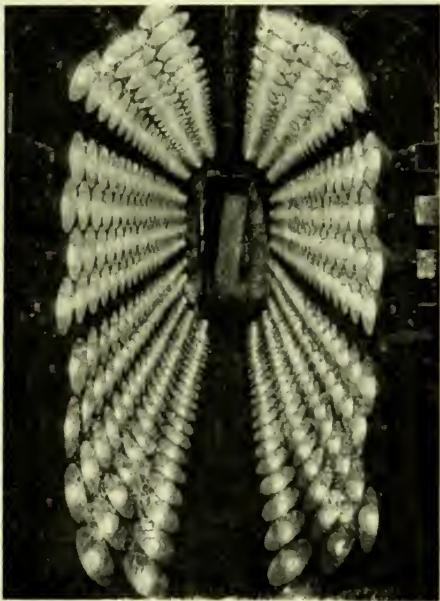
Infra-red evaporator

translucent to infra-red rays is used, much more favourable conditions are provided for the evaporating process. The infra-red rays pass through the translucent wall, becoming absorbed by the liquid, and heat is generated within the liquid; further, there is no temperature gradient between the source of heat and the material being heated, so that the temperature of the material is uniform and constant. The character of the infra-red rays makes it possible to transmit a relatively large amount of heat through a small surface so that the period of heating the material is small. An apparatus designed to permit liquids to be heated or evaporated at low and controlled temperatures without the recurrence of local overheating is illustrated

opposite. It operates as a film evaporator. While the equipment illustrated embodies an electric infra-red generator, gas can usually be applied to the larger units. The generator contains the evaporation tube into which liquor is fed and in which the evaporation takes place. The mixed liquor and vapour pass from this tube to a separator, in which vapour and liquor are separated. The liquor passes to condensate receiver, the vapour passes to a condenser, and the condensate to a receiving system. The apparatus can be placed under vacuum if necessary. The condenser may be cooled with tap-water, or, if necessary, it may be ice-packed.

### Electric Infra-red Oven

Electric infra-red ovens are operated by means of specially constructed lamps which give a large proportion of their heat within the infra-red range, and are often run two in series across the ordinary electric supply. The material to be treated is surrounded



Mazda infra-red lamp oven

by infra-red lamps, each lamp being fitted with a reflector which collects and directs the radiant energy on to the work. The apparatus has been used to advantage for drying powders, the powders being passed through the oven on trays.



## GOVERNMENT-OWNED INVENTIONS

**Outline of the principles which the Chartered Institute of Patent Agents consider should govern the issue of patents to Government department**

THE Chartered Institute of Patent Agents has issued a pamphlet entitled "Government-owned or Controlled Patents." The recommendations made therein have been adopted by the Council of the Institute. Government activity in scientific research and development, says the report, is extensive and may be divided into five main groups, each with several subdivisions. These are (I) the Cabinet Scientific Advisory Committee, (II) the Privy Council committees, (III) Ministerial departments, (IV) semi-autonomous organisations and (V) Universities. There is some measure of consultation between the various sections of all the groups which have common interests, but no close co-ordination appears to exist.

### Present Patent Procedure

Applications for patents on inventions made within or initiated by any of the Government departments in Groups II, III and V above are made either through special patent departments within the department concerned, or through patent agents in general practice. When it is decided departmentally that the ultimate patent shall be held on behalf of the Crown, it appears that an assignment is made

- (1) to the Imperial Trust if the invention is made in Groups II and V;
- (2) to the Minister concerned if the invention is made in Group III.

The statement is made by the Institute with reservations, for the practices seem to be somewhat inconsistent.

There appears to be no co-ordinated policy as between the various groups with regard to the exploitation of patents and inventions. The D.S.I.R. is aware of the possibilities of exploitation, and has shown some activity in securing the industrial exploitation of inventions within its purview. Within the D.S.I.R. itself patenting is not very extensive, the annual average figures for the seven years 1931-38 being of the order of twenty patents applied for.

### Chemical Patents Committee

There is in existence a Chemical Patents Committee formed of members of D.S.I.R., the Association of British Chemical Manufacturers and the British Chemical Plant Manufacturers' Association, to advise on

the patenting and exploitation of the results of departmental chemical research.

### Previous Proposals

The Lee report covered in some detail the whole question of Government inventions and it contained several recommendations, of which the following are the most pertinent.

It recommended the formation of a Inter-departmental Patents Board which would:—

- (i) Take over the functions of the Royal Commission on Awards to Inventors so far as Government servants were concerned;
- (ii) decide whether any particular invention was within the servant's employment;
- (iii) determine the Government share in any profits received from commercial exploitation;
- (iv) establish appropriate committees charged with the supervision of the taking out of patents and of their exploitation to best advantage.

Nothing seems to have been done to carry out these recommendations. The recommendations need review to include consideration of the semi-autonomous organisations of Group IV.

### Institute's Recommendations

Although patents form a minor part of a research and development programme, both as regards cost and manpower, and whether it be in an industrial or governmental organisation, it is considered that prior to the war far too little attention was paid to patents in Government departments. Instances are known where failure to patent valuable inventions by Government employees has resulted in embarrassment to industry in this country and in the enrichment of foreigners who did obtain patents.

It is, however, realised that the war has caused the Government departments to be more appreciative of the value of patents. It is emphasised that, with the larger part which the State will play in future in scientific research and development, there will need to be a still greater recognition of the value of patents and improved organisation for the handling of them. It is considered that the present machinery is inadequate both in scope and organisation, and that reorganisation somewhat as indicated by the committee responsible for the Lee report should be made.

### General Recommendations

Accordingly there is recommended the establishment of a central body to co-ordinate the patent activities of the various Government departments. It is further recommended that the functions of this body should be to formulate general policies and give guidance and rulings where asked and when necessary on the following matters:—

- (1) The respective rights between the Government and inventors in the service of the Crown;
- (2) the making of awards to such inventors;
- (3) the obtaining and maintaining of patents on inventions of such inventors both in this country and abroad;
- (4) the initiation of development work with a view to industrial exploitation of inventions;
- (5) the disposal of patent rights whether by licence or assignment, for the industrial exploitation of inventions;
- (6) the co-ordination of the dissemination of scientific information on new inventions with the patenting of them.

Such a body would be financed by a Government grant, but in course of time it is thought that it might become self-supporting by way of monies earned from the exploitation at home and abroad of Government-originated inventions. In this connexion it is strongly recommended that all patents on such inventions should be vested in one body such as the Imperial Trust: the practice at present of vesting patents in various transient Ministers is open to objection.

## REINSTATEMENT IN WAR-DAMAGED PROPERTIES

WHERE a war-damaged house has been completely repaired, is the tenant at the time of damage, who may have left it perhaps for a number of years, entitled in law to reoccupy the premises? In certain circumstances the tenant enjoys such a right,

the case of "short tenancies," contained in the Landlord and Tenant (War Damage) Amendment Act, 1941, requires particular consideration. For the purposes of the Act, quarterly tenancies and tenancies of shorter duration are "short tenancies." An example may be taken of a quarterly tenant who, in 1942, occupied a house, using the ground floor for business and living with his family above. The house was razed to the ground by enemy action, the tenant and his family being out of the time. In due course the tenant obtained other premises, setting up business there. As the tenancy was quarterly it came under the heading of a "short tenancy," and the liability to pay rent ceased. Although premises may be damaged, the tenancy continues unless either landlord or tenant adopts one of the usual methods of determining a tenancy, for example, by notice to quit or by a surrender. No notice of disclaimer is permissible or would be given if the tenancy were greater than quarterly, but in circumstances where nothing is done on either side and the tenant merely leaves the war-damaged and unfit premises, the Courts have held that there is no surrender of the tenancy. Landlords have benefited by this ruling, and have been enabled to recover rent from tenants who have omitted, no doubt because of their ignorance of the law, to serve their land-

lord with a notice of disclaimer. But what is sauce for the goose is sauce for the gander, and it appears that landlords have established a dangerous precedent which may now begin to recoil on them like a boomerang.

### Can Tenant Claim to Reoccupy?

In the example already cited the war-damaged premises, if unfit for dwelling, will usually rank for a "cost of works" and not a "value" payment, even if they are a total loss. The owner of the property may in due course erect a new house on the site, and the question then arises, "Can the tenant who held under a 'short tenancy' be entitled to claim the house for himself and his family?" It appears that he does, in fact, enjoy that right, and if he does reoccupy the property, the Rent Acts afford him recovery protection. He cannot be turned out except on one of the statutory grounds, which in any circumstances it will be difficult to establish, nor can he be charged a higher rent than before. The new house, being a replacement of the old, would be treated, for the purpose of rent, at least so far as the bombed-out tenant is concerned, as if it were the old one.

In tenancies which are greater than quarterly, everything turns on whether a notice of disclaimer has been served. If the notice has been served the tenancy will have been brought to an end, but if no notice has been served the tenancy, unless it has been otherwise determined, continues, and the tenant is clearly entitled to reoccupy a new house which replaced the previous war-damaged one.



## TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

### 28 Essex St., W.C.2, December 18

The approach of the Christmas holidays has had the effect of slowing down business operations, as was to be expected. No further activity is anticipated until the advent of the New Year. Market prices are without substantial change and the general tone is steady. There have been no changes in the quotations for PHARMACEUTICAL CHEMICALS. Business in the markets for CRUDE DRUGS has continued very quiet. There have been some inquiries for Cape ALOES, but no supplies of this product can be obtained. BALSAM of TOLU is very scarce and material would be worth about 23s. per lb., on the spot. Quotations for CAMPHOR are about the same; the shipment position is said to be strong. MYRRH is somewhat firmer and so is COCHIN NUXVOMICA. IPECACUANHA shows a very firm tendency. A fair amount of business has been done in SENEGA. Merchants are receiving a great number of inquiries from the Continent for items which cannot be imported into this country or cannot be supplied, owing to import licensing restrictions or exchange control. On December 16, BISMUTH METAL was advanced by 1s. to reach 10s. per lb. Business in ESSENTIAL OILS has been very quiet and no changes in quotations have been made during the past week.

The London Commodity Exchange will be closed from 12.30 p.m. on Tuesday, December 24 until Friday morning, December 27.

### Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	Dec. 18
*Alexandria ...	Piastres to £	97½-97½
Amsterdam ...	Florins to £	10.68-10.70
*Bombay ...	Pence to rupees	1-5½-1-6½
Brussels ...	Francs to £	176½-176½
Copenhagen ...	Kroner to £	19.32-19.36
Dutch East Indies	Florins to £	10.68-10.70
Dutch West Indies	Florins to £	7.58-7.62
*Hong Kong ...	Pence to \$	1-2½-1-3½
Oslo ...	Kroner to £	19.98-20.02
Paris ...	Francs to £	479.7-480.3
Lisbon ...	Escudos to £	99.80-100.20
Montreal ...	Dollars to £	4.02-4.04
New York ...	Dollars to £	4.02½-4.03½
Rio de Janeiro ...	Cruz to £	75.4416
*Singapore ...	Pence to \$	2-4½-2-4½
Stockholm ...	Kroner to £	14.47-14.50
Zurich ...	Francs to £	17.34-17.36

\* Free market rates.

### U.S. Drug and Chemical Report

New York, December 1

SETTLEMENT of the U.S. coal strike is expected to bring about an early resumption of full-scale coke-oven operations and consequent increase in output of by-products. Featuring the FINE CHEMICALS markets this week was an announcement by the United States Chemical Corporation that it would accept sealed bids on a second lot of Japanese chemicals which were due to arrive in the near future. Bids were to be filed for 300 bales of AGAR, 478 cases of MENTHOL, 120 cases of refined CAMPHOR, 180 cases of refined powdered camphor, and 312 cases of vegetable WAXES. Additional shipments of menthol from China are also expected within a few days and Brazilian dealers are now said to be trying to get rid of their supplies. Stocks of SACCCHARIN in the United States are now lower than at any time since the beginning of the war and no substantial relief is seen for at least six months. Recently imported European material is fetching from \$15 to \$30 per lb. compared with the old O.P.A. price of \$1.65. Crude GLYCERIN production (100 per cent. basis) in October amounted to 11,732,000 lb.—a decline of 50,000 lb. on the September output, according to official statistics. Stocks also declined over the month—from 45,465,000 lb. at the end of September to 43,465,000 lb.

Foreign exporters of CRUDE DRUGS face a sharp reduction in the American market, it was stated at a recent meeting of the scientific section of the Proprietary Association of America. As a result of the high cost, short supply and poor quality of imported botanicals, the U.S. is turning to domestic production, one member said. Some 154 shipments of botanicals totalling more than 2,000,000 lb. had been detained at the port of New York during the six months ended November 1 due to contamination or insect infestation. On the market, CARNAUBA WAX has eased somewhat and, according to Press reports, total offerings from Brazil for December shipment now exceed 170 tons although a week ago no material was offered for forward shipment. Demand for other drugs has continued rather uncertain with BELLADONNA, JALAP ROOT, SENEGA and IPECACUANHA still very scarce and firm. Trading in ESSENTIAL OILS has been rather dull and the market



as featured by increased offerings of AROMATIC CHEMICALS. Notable arrivals included about 125 drums of BOIS DE ROSE and 300 drums of OCOTEA CYMBARUM from Brazil. HYDROXYCITRONELLAL has been offered again by some suppliers but new prices are around \$19.25 per lb. against the previously nominal level of \$8 to \$10½. The price of ETHYL VANILLIN has been increased to \$1.50 per lb. to \$6.75 following the advances announced last week for LIGNAN VANILLIN.

## Pharmaceutical Chemicals

ACETANILIDE.—Makers' prices are unchanged; 2s. 5d. per lb. for crystals, 2s. 6d. for powder.

AMIDOPYRINE.—Quotations are about 36s. 37s. 6d. per lb., according to quantity. Supplies are limited.

AMPHETAMINE.—The price given by makers is 150s. per lb. In good request.

ASPIRIN.—Home market prices steady; quotations per lb., in quantities of 28-lb.-cwt., are (containers in brackets): 4s. 1½d. (1-lb.); 4s. od. (4-lb.); 3s. 11d. (7-lb.); 3s. 10½d. (14-lb.); 3s. 9½d. (28-lb.).

ASPIRIN TABLETS.—Makers quote bulk supplies per 1,000 as follows: Under 5,000, 6d.; 5,000 and over, 3s. 4d.; 10,000, 3d.; 25,000, 3s. 1d.; 50,000, 3s.; 100,000, 2s. 11d.; 250,000, 2s. 10½d.; 500,000, 2s. 10d.; 1,000,000, 2s. 9d.

ATROPINE.—Home trade prices per oz. are steady at: ALKALOID, 42s. 6d.; 4 oz., 2s.; 25 oz., 41s. 6d. SULPHATE, 34s.; 4 oz., 1s. 6d.; 25 oz., 33s. METHYLBROMIDE and ETHYLNITRATE, 75s.

BARIUM SULPHATE, B.P. (x-ray).—Prices per lb. quoted by makers, in 28-lb.-1-cwt. lots, for home sales, are (containers in brackets): 1s. 6d. (1-lb.); 1s. 4½d. (4-lb.); 1s. 3½d. (7-lb.); 1s. 3d. (14-lb.); 1s. 2d. (28-lb.). Prices are net, one month.

BENZOIC ACID.—In limited supply. Small quantities are quoted at 2s. 9d. per lb.

BISMUTH SALTS.—Makers' prices are as follows (containers in brackets): 7 lb. and over 14 lb., 14s. 2d. (1-lb.), 14s. 1d. (2-lb.), 13s. 10½d. (4-lb.), 13s. 11½d. (7-lb.), 14 lb. and under 28 lb., 13s. 11½d. (1-lb.), 13s. 10½d. (2-lb.), 13s. 10d. (4-lb.), 13s. 9d. (7-lb.), 13s. 8½d. (14-lb.), per lb. CITRATE, 8d. per lb. over above prices. SALICYLATE, 3d. per lb. over above prices. SUBSALICYLATE, 3s. 11d. per lb. over above prices. ETHYLNITRATE, 1s. 3d. per lb. over above prices. Metal prices advanced 1s. per lb.

GUAIACOLS.—Current prices are as follows: Liquid, 16s. per lb.; crystal, 15s. per lb.; carbonate, 15s. per lb. Supplies are limited.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gram in brackets): ALKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d.; (4s.). HYDROCHLORIDE, HYDROBROMIDE and SULPHATE.—1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

HYOSCINE HYDROBROMIDE.—Makers' price for 1 gram is 6s. 6d.; 1 oz., 150s.; larger quantities are quoted at 147s. 6d. per oz.

MANDELIC ACID.—Demand is good. Current prices are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

MERCURY SALTS.—Current rates per lb. are as follows: AMMONIUM CHLORIDE, B.P., powder, 10s.; lump 9s. 10d. BICHLORIDE, B.P., powder, 8s. 10d.; lump or granular, 9s. 2d. MERCURIUS CHLORIDE, B.P., 10s. 3d. RED OXIDE (LIGHT), B.P., 11s. YELLOW OXIDE, B.P., 11s. 7-lb. lots are 6d. per lb. less than above prices.

SANTONIN.—Rates are unchanged: 5 kilos, £44 per kilo; less than 5 kilos, £45; 1 kilo, £46; half-kilo, £47; quarter-kilo, £48 per kilo; carriage paid in U.K.

SULPHANILAMIDE.—In good demand. Quoted at 7s. to 7s. 6d. per lb., as to pack.

TERPINEOL.—B.P. is available at 5s. per lb. for small lots. Supplies are limited.

THEOBROMINE.—Current prices per lb., in quantities of 28 lb., are as follows: ALKALOID, B.P.C., 30s. 6d.; CALCIUM SALICYLATE, 19s. 3d.; SODIUM SALICYLATE, 19s. 3d.

VANILLIN.—No price changes, 5 cwt., 22s. per lb.; 1 cwt., 22s. 3d.; 56 lb., 22s. 6d.; smaller quantities, 22s. 9d. per lb.

## Crude Drugs

ALOES.—Curaçao is steady at 270s. per cwt., on the spot; forward, from 235s. to 245s., c.i.f. No Cape is available.

ANISE (STAR).—Steady. Quotations are unchanged at 190s. to 210s. per cwt., on the spot; shipment, 120s., c.i.f.

ANTIMONY.—The controlled price for minimum 99.6 per cent. regulus is £132 10s. per ton, delivered; 99 per cent. regulus, £125 per ton; 70 per cent. crude, £105.

ARECA NUTS.—Ceylon is firmly held at 65s. per cwt.; shipment, 62s. 6d., c.i.f.

BALSAMS.—Canada is quoted at 14s. 9d. per lb. Peru is quoted at 7s. 9d. per lb., duty paid; in bond, 6s. 6d. A small quantity of Tolu is offered at about 23s. per lb.; shipment quotations are at 18s. 6d., landed.

BELLADONNA.—Italian root is firmly held at 175s. per cwt., c.i.f.

BENZON.—Sumatra is firmly maintained at £25, spot; afloat, £25; forward, £17, c.i.f.

BISMUTH.—Price of the metal was advanced on December 16 to 10s. per lb., ex warehouse U.K.

BUCHU.—Quiet market. Short-rounds are offered from 4s. 3d. per lb., spot.

CALABAR BEANS.—Steady. Quotations are at 1s. 9d. to 1s. 10½d. per lb., ex-warehouse Liverpool.

CALUMBA.—Natural root, for the export trade, is quoted at about 65s. per cwt., on the spot; washed root, 80s. per cwt.

CAMPHOR.—A few cases of Chinese ¼-oz. tablets are offered at 13s. 6d. per lb., spot; shipment, 10s. 6d., landed, duty paid. Refined powder (B.P.) is quoted at 10s. 3d. to 10s. 6d. per lb., duty paid; crude powder, 9s. 6d. to 9s. 9d.

CANTHARIDES.—Quiet. Forward quotations are in the region of 14s. to 15s. 6d. per lb., c.i.f.

CAPSICUMS.—East African is firmly maintained on the spot at 120s. to 140s. per cwt., according to quality.

CARDAMOMS.—Aleppy seeds, No. 1, are quoted at 7s. 9d. per lb., spot; supplies are difficult to locate. Aleppy greens, 6s. 9d. to 7s. per lb. Mangalore half bleached, A's, are available at 9s. per lb.; B's, 8s. 6d.; C's, 7s.

CASCARA SAGRADA.—Quotations are in the region of 280s. per cwt., duty paid. A firm market.

CASCARILLA.—Quills are firmly maintained at 2s. 4½d. per lb., on the spot.

CHAULMOOGRA.—*Hydnocarpus* is quoted unchanged at 2s. per lb. in tins in cases.

CHILLIES.—Steady. Mombasa, on the spot, 160s. per cwt., sellers; shipment, 145s., c.i.f., buyers' licence. Sierra Leone, 140s. per cwt., on the spot. Nigerian, 135s., spot.

CINNAMON.—Quillings are quoted from 3s. to 3s. 3d. per lb., spot; featherings, from 2s. 8d. to 3s. 8d.; chips, sifted and washed, 1s. 9d. to 2s. per lb., spot; shipment, 1s. 3½d., c.i.f., buyers' licence.

CLOVES.—Zanzibar, 10½d. per lb., spot; afloat, 10d., c.i.f., buyers' licence; December-January shipment, 9½d. per lb., c.i.f.

COCHINEAL.—Silver-grey, for the home trade, are quoted at 4s. 6d. per lb., on the spot; black, very scarce, 5s. 9d. per lb.

COCOA BUTTER.—Controlled price is unchanged at 1s. 7d. per lb., ex factory or warehouse.

COCONUT (DESICCATED).—Maximum controlled price is 74s. 8d. per cwt., ex store.

COLOCYNTH.—Fine-white is quoted at 2s. 6d. per lb., spot; medium-white, 2s. 3d. per lb.

DIGITALIS LEAVES.—Portuguese, in good supply, is steady at 130s. per cwt., spot. English-grown, from 2s. 3d. to 2s. 6d. per lb.

ERGOT.—Fair material is quoted at 5s. 3d. per lb., on the spot.

GALBANUM.—Small quantities are quoted at 8s. 6d. per lb., duty paid.

GENTIAN.—Quotations for French root are steady at 112s. per cwt., spot.

GINGER.—Jamaica No. 1 is steady at 130s. per cwt.; No. 2, 115s.; No. 3, 105s. Africa is unchanged at 82s. 6d. on the spot.

GUM ACACIA.—Firm. Kordofan cleaned sorts is quoted at 76s. per cwt., London 74s., Liverpool. Talha, cleaned, is quoted at 45s., spot; forward, 42s. 6d., c.i.f.

GUM MASTIC.—Spot quotations are steady at 16s. per lb., duty paid.

HENBANE.—Indian leaf, quoted unchanged at 250s. per cwt., spot. Egyptian (*muticus*) shipment, 80s. per cwt., c.i.f.

IPECACUANHA.—Nicaraguan root is quoted at 28s. 6d. to 29s. per lb., on the spot; shipment, 26s. 6d. per lb., c.i.f. A very firm market.

The Export and Import Department of the Bank of Brazil has issued a notice fixing prices for sales of ipecacuanha by producers to authorised buyers, and by authorised buyers to laboratories, at the following level respectively, per kilo of root at the seller establishment:—For root from Matt Grosso, \$Cr170 and \$Cr200; for root from Minas Gerais and Espirito Santo, \$Cr111 and \$Cr140. These prices show an increase of 32 to 36 per cent. on those which were fixed in October, 1944.

JUNIPER.—Italian berries are firmly maintained at prices ranging from 56s. to 65s. per cwt., according to quality.

KAMALA.—Quotations are unchanged. Small quantities are available at 3s. per lb., landed.

KOLA NUTS.—African quarters are quoted at 7½d. per lb.; African halves, 5d. to 6d., according to quality; Jamaican washed halves, 5½d. per lb.

LIQUORICE ROOT.—Anatolian root is quoted at 60s. per cwt., spot. Turkish juice (block) is quoted at 250s. to 260s., spot; forward 190s., c.i.f.

LOBELIA.—Supplies are scarce. Quotations are from 6s. 6d. to 7s. per lb., on the spot.

MENTHOL.—Brazil is quoted at 44s. per lb., duty paid; Chinese, 45s. per lb., on the spot.



**MERCURY.**—Government-owned stocks are quoted at £25 per flask. Future delivery, quoted £20 15s. per flask.

**MYRRH.**—Quotations for Aden sorts are given at £14 to £17 per cwt., according to quality; siftings are quoted at £10 per cwt.

**NUTMEGS.**—West Indian, 80's, is worth 9d. per lb.; sound unassorted, 4s. 6d.; the spot; wormy and broken, 4s. 3d., nominal.

**NUX VOMICA.**—Quotations for Madras are changed at 40s. to 42s. 6d. per cwt.; Bangalore, 40s.; Cochin, 43s. 6d. to 45s., nominal.

**ORANGE PEEL.**—Spanish quarters is easier 1s. 9d. per lb., on the spot; sweet ribbon, 9d. per lb. Italian bitter quarters is quoted at 1s. 6d. per lb., spot.

**ORRIS.**—Firm. Florentine is quoted at 10s. to 150s. per cwt., according to holder.

**PAPAIN.**—Firm and scarce. Nominal quotation, 25s. per lb.

**PEPPER.**—Maximum controlled prices are changed. Whole, not picked over or aned, on sale to processors, 1s. 4d. per lb. white and 1s. for black. Picked over and aned, 1s. 8d. and 1s. 2d. per lb., respectively. Lampong black, to arrive, steady at c.i.f., sellers; white Martok, December-January shipment afloat, quoted at 2s. 1½d., c.i.f., sellers.

**PIMENTO.**—A quiet market. Spot quotations are steady at 1s. 1d. per lb.; forward quotations, 122s. 6d. per cwt., c.i.f.

**QUASSIA.**—Quoted on the spot at 42s. 6d. 45s. per cwt., according to holder.

**QUILLAIA.**—Natural bark is offered at 130s. per cwt., spot; cut, 150s., ex store.

**QUINCE SEEDS.**—Cape is steady at 6s. 9d. per lb., on the spot.

**RHATANY.**—Spot quotations are maintained at 1d. per lb.

**SARSAPARILLA.**—Jamaica native is steady at 2s. 4d. to 2s. 6d. per lb., according to holder.

**SEEDS.**—ANISE.—Cyprus, 2s. 6d. per lb., spot London or Liverpool. CELERY.—Indian, quoted at 1s. 6d. per lb. spot Liverpool. CORIANDER.—Indian, 77s. 6d., spot, Liverpool; Morocco, offered at 77s. 6d., c.i.f. paid, spot, London. CUMIN.—Cyprus, 2s., and Indian, 240s., spot, London.

**FENNEL.**—Indian, 55s., spot, London or Liverpool. FENNEL.—Indian, quoted at 155s., spot. FENUGREEK.—Indian, 57s. 6d., spot, London and 55s., spot Liverpool.

**GENEGA.**—Spot quotations are at 14s. 6d. 15s. 6d. per lb. A good amount of business

has been done and most stocks of the cheaper material have been sold.

**SENNA.**—Tinnevely leaves, spot, No. 1, 1s. 2d.; No. 2, 10½d.; No. 3, 10d.; No. 4, 8½d. Tinnevely pods, good quality, from 10½d. to 11½d.; f.a.q., 6d. to 6½d. Alexandrian pods, hand-picked, spot, from 4s. 3d. to 4s. 9d., according to quality; medium, 2s. 9d.; manufacturing grade, 1s. 9d. to 2s.

**SHELLAC.**—Steady. Spot quotations, ex warehouse London, are as follows: F.O.T.N., pure, quoted at 350s. per cwt., F.O. standard, No. 1, 355s.; F.O. lemon, No. 1, 362s. 6d.; F.O. lemon, No. 2, 357s. 6d.; A.C. garnet, 365s., buttonlac, 370s. per cwt.

**SQUILL.**—Firm. Quoted at 70s. per cwt., on the spot.

**STRAMONIUM.**—Indian leaf is firmly held at 95s. per cwt., on the spot.

**STROPHANTHUS.**—Kombé seed, 100 per cent., 9s. to 10s. per lb., nominal.

**STYRAX.**—Small quantities are available at 4s. 10½d. per lb., duty paid.

**TONKA BEANS.**—Frosted Para are quoted at 5s. 6d. to 6s. per lb., on the spot.

**TRAGACANTH.**—Market quiet with prices steady. Selected grades are quoted at £155 per cwt. Prices of medium grades are as follows: No. 1, white, £145 per cwt.; No. 2, white, £125; No. 3, white, £110; No. 4, white, £85; pale leaf, £50; amber leaf, £50; dark amber, £35; brown leaf, £25; red-and-brown leaf, £20; red leaf from £17; hoggy, £12 to £15.

**TURMERIC.**—Spot quotations for Madras finger are at 97s. 6d. per cwt.; December-January shipment, 97s. 6d., c.i.f.

**VALERIAN.**—Quotations for Belgian root range from 210s. to 240s. per cwt., according to holder.

**WAXES.**—CARNAUBA.—Fatty grey, 1,020s., spot; January-February shipment, 890s., c.i.f. Chalky-grey, 950s., spot; shipment, 880s., nominal. Prime Yellow, 1,170s., spot. CANDELLILLA.—Spot and forward, 450s. per cwt. BEES'.—Dar-es-Salaam, spot, 350s.; shipment, 345s., c.i.f. BENGUELA, spot in bond, 310s. per cwt.; shipment, nominal, 305s. Sudanese, 310s., spot in bond. Lindi, 347s. 6d., on the spot; afloat, 340s.; shipment, 342s. 6d., nominal.

## Essential and Expressed Oils

**BAY.**—West Indian is steady at 9s. per lb. spot, for small lots.

**CADE.**—Nominal price is about 5s. per lb.

**CASSIA.**—Firm. Quoted at 18s. to 20s. per lb., spot, according to quantity.



**CASTOR.**—Prices are unchanged. "Firsts," £110; "seconds," £108 per ton, naked, ex works.

**CINNAMON LEAF.**—Steady. Quotations range from 17s. to 18s. per lb., spot.

**CLOVE.**—Quotations for English-distilled bud oil are unchanged at 11s. to 12s. per lb., according to quantity.

**CORIANDER.**—English-distilled oil (B.P.) is steady at 22s. to 25os. per lb.

**FENNEL.**—Sweet oil is quoted at 25s. per lb., spot. In limited supply.

**GERANIUM.**—Bourbon is offered at 85s. to 9os. per lb., spot.

**GINGER.**—Steady. Spot quotations are from 8os. to 10os. per lb., according to quality.

**GUAIACWOOD.**—Available at prices from 18s. to 19s. per lb., spot, according to quantity.

**JUNIPER BERRY.**—Steady. English-distilled oil is quoted at 135s. per lb., spot.

**LAVENDER.**—French oil (38 to 40 per cent. esters) is steady at 62s. 6d. to 67s. 6d. per lb. Spanish (spike), 15s. per lb.

**LEMONGRASS.**—Cochin is quoted at 2os. per lb., on the spot; forward, from 18s. to 19s., c.i.f.

**LIME.**—Spot quotations for West Indian-distilled oil are steady at 35s. per lb.

**LINSEED.**—Controlled price for crude oil is £135 per ton, naked, ex works.

**NEROLI.**—Forward quotations are about 7os. per oz., c.i.f.

**NUTMEG.**—Scarce. English-distilled oil is quoted at 77s. 6d. per lb.

**OLIVE.**—Controlled price of edible, 1 per cent., is 47s. 9d. per gall. of 9 lb., ex store London, in 45-50 gall. drums.

**ORIGANUM.**—Steady. Quoted at 21s. per lb., on the spot.

**PAJMAROSA.**—Spot quotations all given at 45s.; forward 37s. 6d. per lb., c.i.f.

**PATCHOULI.**—Singapore, shipment is quoted at 21os. per lb.

**PIMENTO BERRY.**—English-distilled oil is steady at 57s. 6d. per lb., on the spot.

**RAPESEED.**—Controlled price, for bulk supplies of crude oil, remains at £91 per ton, naked ex works.

**ROSEMARY.**—Steady. Spanish quoted at 1os. 6d. to 12s. 6d. per lb., according to quantity.

**THYME.**—Red oil (40 to 42 per cent. phenols) is quoted at 2os. per lb.; white oil is quoted at 22s. 6d. per lb., on the spot.

**VELVET.**—Shipment quotations, 16os. per lb., c.i.f., nominal.

**Refined Vegetable Oils.**—Changes in the Ministry of Food prices (per ton) of refined oils, allocated to primary wholesalers and large trade users during the eight week period December 8, 1946, to February 1947, are given in the table below. There has been an all-round increase of £28 per ton:

Oil	Grade	Price £
Coconut	Refined deodorised ...	84
Coconut	Refined hardened ...	88
Palmkernel	Deodorised ...	84
Palmkernel	Hardened deodorised ...	88
Cottonseed	Refined deodorised ...	86
Groundnut	Refined deodorised ...	86
Groundnut	Refined hardened, deodorised to 40° ...	90
	deodorised to 50/ 52° .....	91
Palm	Refined deodorised ...	83
Palm	Hardened deodorised ...	86

The rates are for bulk supplies, naked, ex works. Refined edible cottonseed oil is not long being manufactured.

## NEW ZEALAND AGAR

THE Dominion was reported recently to have an exportable surplus of 35,000 lb. of refined granulated agar. When extensions to existing plant capacity are completed, the exportable surplus should reach about 50,000 lb. a year. The collection of seaweed for agar production in New Zealand began in 1942 to compensate for the loss of sources of supply during the war. From 1943 until 1945, 245 long tons (dry net weight) were marketed. Of this total, fifty-six long tons were sold in 1943, eighty-nine tons in the following year, and 100 tons in 1945. All the agar seaweed has come from the North Island, but additional beds exist in various areas off the New Zealand coast. Whether or not these new beds will be exploited depends chiefly upon the world price of agar and the availability of labour for collecting.

## COMING EVENTS

**Saturday, December 28**

**COMMERCIAL TRAVELLERS' BENEVOLENT INSTITUTION**  
4B Frederick's Place, Old Jewry, London, E.C.2  
at 12 noon. Annual court of governors.

The West Ham and East Metropolitan Branch of the Pharmaceutical Society are holding a new year social party at Manor Park Library on Thursday, January 2. Tickets 3s. 6d. (including whist and refreshments) from Mr. Stanley Robinson, 21 Broadhurst Avenue, Ilford, Essex.

## OVERSEAS TRADE NEWS

**Zanzibar Clove Exports.**—In October, 7 bales of cloves and 102 drums of clove oil were exported from Zanzibar to the United Kingdom.

**Germans Form Penicillin Company.**—German company for producing penicillin has been formed at Goettingen, in the British zone of Germany, by a chemist and business men, the British News Service Germany reported recently.

**Canada's Irish Moss Production.**—This year's crop of Irish moss in Canada's maritime provinces will be the heaviest yet harvested, surpassing the 1945 yield of 250,000 lb. by an estimated 50 per cent., and having a landed value of about 10,000, if of good quality. Most of the crop will be exported to the United States.

**U.S. Photographic Chemicals.**—German photographic chemicals and film are cost more in the United States following announcement by the General Aniline and Film Corporation. Dearer raw materials, particularly silver, in addition to increased labour costs have necessitated price increases, the company stated recently.

**Gums Freed from Price Control in France.**—Gum acacia, insoluble gums (including adragante, mamrah, shiraz and arculia), copal gum, ammoniacum, benzoin gums and incense have been freed from price control as from December 6, according to a decree issued by the Minister of National Economy.

**Swiss-Bulgarian Trade Agreement.**—Details have now been published of the goods to be exchanged under the Swiss-Bulgarian trade agreement concluded recently. Bulgaria will supply Switzerland with tobacco, rose oil, fruits, wine and pulps, while Switzerland's exports will include pharmaceutical chemicals and other chemical products.

**Italian Olive Oil Production.**—The output of olive oil in Italy, states a Milan report, is expected to amount to between 100,000 and 130,000 metric tons this season. In the province of Imperia, the price of olives ranges between 64,000 and 70,000 lire a ton, while in some places they are fetching as much as 80,000 to 90,000 lire a ton.

**Sweden to Produce Penicillin.**—Situated on the outskirts of Stockholm, Sweden's first penicillin producing plant is expected to be in operation within the first half of 1947. The factory, built for Kaernbolaget,

A.B., comprises four stories and covers an area of 900 square metres. Capacity is estimated at 20,000 ampoules per day.

**Italy and N. American Products.**—The formation of a company to develop the importation and production of therapeutic products obtained from N. America is reported from Milan. This firm will make available the most recent developments in technique in the manufacture of a large range of products; it will not, however, undertake the production of penicillin, owing to lack of the large amount of capital required to render such production an economic proposition.

**Savannah Rosin and Turpentine Market.**—Greater interest in rosins is reported. Foreign demand has continued unabated while the export licence situation is unchanged. Rumours continue to circulate of the cancellation of U.S. export restrictions before the end of the year. Large offerings of turpentine coupled with buyers' resistance has caused sharply lower prices. Opinion on prices is mixed, states a report, with some sections expecting further easiness, while others believe that the market will soon settle down. A high level of turpentine production in 1947 is forecast.

**Production of Synthetic Glycerin.**—The first large-scale commercial production of synthetic glycerin will become a reality when the Shell Chemical Corporation completes its \$7,000,000 glycerin plant at Houston, Texas, early in 1948, according to the company's president, Mr. J. Oostermeyer. Shell scientists who have conducted pilot plant production of synthetic glycerin over a long period report that it meets all the requirements as a high-quality chemically pure product. In the new plant, it will be manufactured from propylene chloride and caustic soda.

**U.S. Lifts further Export Restrictions.**—More than fifty items have been removed from export control by the U.S. Department of Commerce. The removal of these items from the restricted list applies only to countries in Group K, which includes Britain and the Dominions. The list includes: Cinnamon and cassia; benzoin, Batu, Congo, copal, dammar, elemi, gamboge, Manila, mastic and sandarac gums and resins, refined (or modified in condition) and crude; ipecacuanha, nux vomica, cohune nuts and kernels, perilla seed, perilla oil (inedible); candelilla wax, carnauba wax, ouricuri wax and vegetable tallow.





ates should be examined, and figures representing newly subscribed shares should be substantiated by the production of the shares of allotment and the bankers' receipts. An auditor has no responsibility for the accuracy of the share register records beyond that of reporting on the amounts which have been examined. Although auditors have the right to inspect all books, accounts, and vouchers to obtain all information and explanations that may be required for the purpose of verifying the correctness of the figures, an audit of share transfer records is rarely essential to enable a balance sheet to be certified. Inscribed books can be checked by examining the certificates which have been issued from the office of inscription, but further certificates should have to be obtained concerning any restraints placed on the stocks, and a certificate of verification obtained from the bank of inscription. As an annual audit can really do very little to prevent the raising of money on the part of dishonest officials, a strong case can be made in support of the continuous audit or examination of the share register, and this is, in fact, the only practical safeguard against the issue of fraudulent share certificates. Investments in subsidiary companies, which place more responsibility on the shoulders of the auditor, should be distinguished from other investments.

## Dealing with Soap Coupons

*We should like to know the best way of dealing with customers' soap coupons in our pharmacy in which are employed four assistants, and a girl cashier-book-keeper. — F.*

Except that no entry will be made in the book, soap coupons may be treated in the same way as actual cash, and should be subjected to tight control. When a customer is supplied with soap in the shop, the sales assistant should cut the correct number of coupons from the customer's ration book, and hand them back to the customer for tender at the cash desk. If the sales assistant pays the cashier, the assistant will hand over the coupons for the customer. The cashier should record on the sales check the number of coupons taken, this number being inserted in plain numerals in the left-hand margin of the check, and if sales are analysed under two or more headings a column should be provided for showing the number of coupons. When the cashier is not responsible for compiling a record of the sales checks, this work should be done by the proprietor or manager.

## MISCELLANEOUS INQUIRIES

Formulas given below may have been prepared for overseas subscribers and the inclusion of substances therein is no indication that they are available in Britain or, if available, permitted to be used.

**Face Massage Cream.**—*P. O'B.*—Below are two formulas for creams suitable for use in face massage :—

I			
White wax	...	...	3j.
Hard paraffin	...	...	3j.
Soft white paraffin	...	...	3iss.
Distilled water	...	...	3iss.
Borax, in powder	...	...	3iss.

II			
Stearic acid	...	...	50 dr.
Glycerin	...	...	15 oz.
Potassium carbonate	...	...	5 dr.
Sodium bicarbonate	...	...	1 dr.
Water	...	...	30 oz.

Heat the ingredients together on a water bath for three hours, then remove from the source of heat and stir until cool. When nearly cool add a sufficient quantity of any desired perfume and stir in, taking care not to occlude air.

**Horticultural Weed Control.**—*A. D. Y.*—For pre-emergence spraying to kill weeds that appear before horticultural crops, sulphuric acid is the agent of choice. A solution should be made up according to the following formula :—

Brown oil of vitriol	...	13 gall.
Wetting agent	...	1 pint
Water	...	to 100 gall.

Care should be employed in making this solution and the following procedure is recommended : Into a clean wooden barrel pour half the water required. Then pour the requisite quantity of acid from a carboy into a wooden, copper or earthenware measuring vessel. Pouring from the carboy is easier if it is mounted on a carboy tipper or cradle. Then pour the acid slowly in a thin stream into the water. Finally, add the wetting agent, stir, and make up to the correct volume with more water. Use clean water for spraying ; dirty water will lead to blocked nozzles. Water must never be added to the acid as dangerous spurning or ebullition may result.

Although in cereal crops dinitro-ortho-cresol (D.N.O.C.) and selectively toxic growth-promoting substances now take precedence over sulphuric acid, they cannot be used for weed control in horticultural crops : they may also kill or severely damage the crop.



## TRADE MARKS

(From "The Trade Marks Journal,"  
November 20)

"DEDASEPT"; for insecticides (5). By The Times Food Products Co., Ltd., Imperial House, 80 Regent Street, London, W.1. 644,046.

Pictorial design of Harrogate pump room; for medicated mineral waters and pharmaceutical saline preparations; all for the treatment of human ailments (5). By the mayor, aldermen and burgesses of the borough of Harrogate, Town Hall, Harrogate, Yorkshire. 632,664 (Associated).

"CEC", in descriptive lettering; for safety razors and safety-razor blades (8). By Cutlery Export Co., Ltd., Stable Works, Edward Street, Sheffield, 3. 640,758.

"PRESIDENT"; for razors, cutlery, spoons and forks (8). By Stanley Rogers, 118 Queen Street, Melbourne, Australia. 642,544.

"KUTEO"; for razors, scissors and knives included in this class (8). By Stanley Rogers, 118 Queen Street, Melbourne, Australia. 639,828.

"TRIXADIO"; for electrical apparatus and instruments included in this class; scientific, cinematographic and teaching apparatus and instruments, etc. (9). By the Trix Electrical Co., Ltd., 1 Maple Place, Maple Street, Tottenham Court Road, London, W.1. 642,634.

"REFMAG"; for magnifying glasses (9). By B. Z. Products, Ltd., 4 High Street, Chesham, Bucks. 643,557.

"VISPON" in semicircle design; for viscose sponges (21). By Perutz, Ltd., 1 Newman Street, London, W.1. 641,174.

(From "The Trade Marks Journal,"  
November 27)

"JAV"; for chemical products used in industry (1); for all goods (3). By Société Jav, 29 Rue Emile Zola, Bezons, Seine-et-Oise, France. 642,017-18 (Associated).

"GELAPLEX"; for gelatin and gelatin preparations, all for use in industry (1). By Ashe Laboratories, Ltd., 120 Victoria Street, Westminster, London, S.W.1. 643,275.

"SPOT-LITE"; for grease-paints, eyebrow pencils and face powder (3). By L. Leichner (London), Ltd., Leichner House, 30 Acre Lane, London, S.W.2. B630,897.

Device of Southwark cathedral; for essential oils (3). By Southwark Products, 59 Union Street, London, S.E. 640,081 (Associated).

"FINTOLA"; for toilet articles included in this class, but excluding hair dyes and goods of the same description as hair dyes (3). By Finlay & Co., Ltd., Collingwood House, Mercers Road, London, N.19. 643,195.

"DARK MUSIC"; for toilet articles included in this class, toilet preparations (not medicated), perfumes and perfumed soap (3). By Nor-Sun, Ltd., 10 Central Drive, Blackpool, Lancs. 643,306.

"KERODEX"; for toilet cream (not medicated) (3). By Scientific Pharmaceuticals, Ltd., 233 Balls Pond Road, London, N.1. 643,777.

"DEDECT"; for insecticides (5). By Cupal, Ltd., Phoenix Mill, King Street Bridge, Blackburn, Lancs. 641,318.

"JOYPAX"; for medical and surgical plasters and dressings; sanitary towels, poultices, etc., infants' and invalids' food and dietetic foods (5). By Museum Drug Stores, 69a High Street, Godalming, Surrey. 638,238 (Associated).

"KUZOR" word repeated in form of circle inside circle; for medicated ointment not in the nature of an insecticide (2). By Kuzor, 2 Waverley Avenue, Monksheaton, Whitley Bay, Northumberland. 639,788.

"VAMOOSH"; for insecticides, fungicides and preparations for killing weeds (4). By Ashe Laboratories, Ltd., 120 Victoria Street, Westminster, London, S.W.1. 642,001 (Associated).

"TAKURO"; for medicated preparations for internal use (5). By Edward Collins, The Grange, Adamstown Lane, Luca, Dublin, Ire. 642,069.

"FUMITE"; for insecticides and disinfectants (5). By the Wessex Aircraft Engineering Co., Ltd., Middle Woodford, Salisbury, Wiltshire. B642,923.

Sketch plan of foot measuring device (for measuring device disclaimed); for devices for measuring the human foot (3). By Brannock Fitting Device, Ltd., 17-19 Old Bond Street, London, W.1. B642,979 (Associated).

"JENEX"; for hair drying appliances (1). By Michael Curry, 2 Chelmsford Square, London, N.W.10. 643,789.

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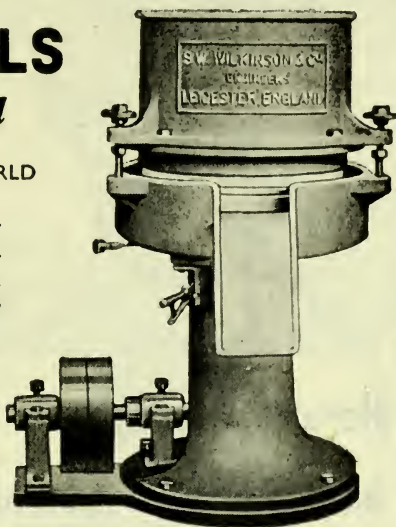
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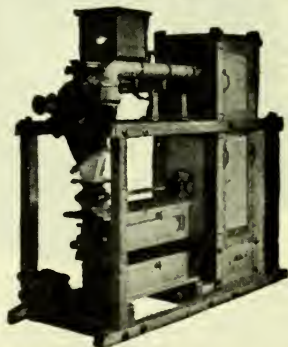
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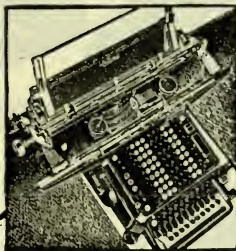




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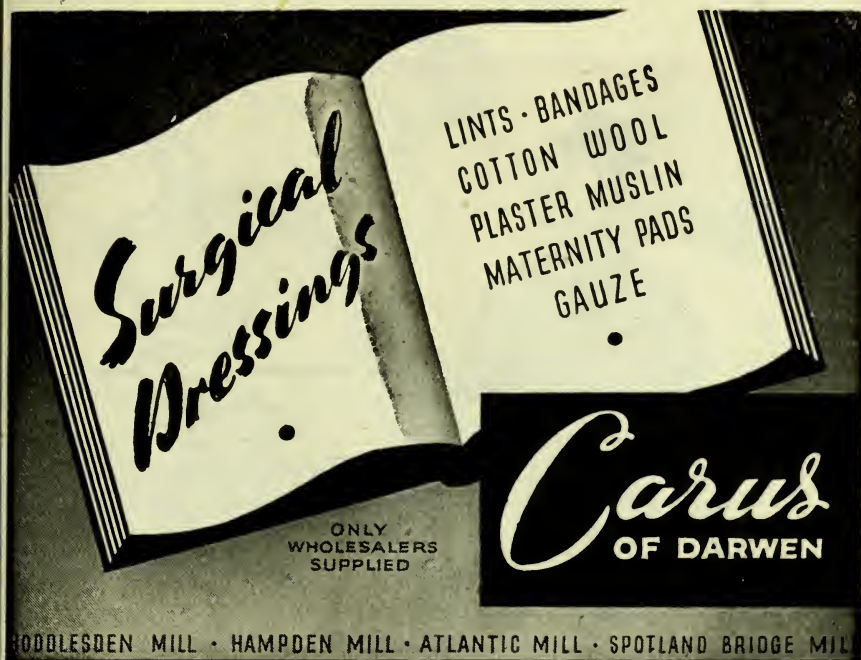
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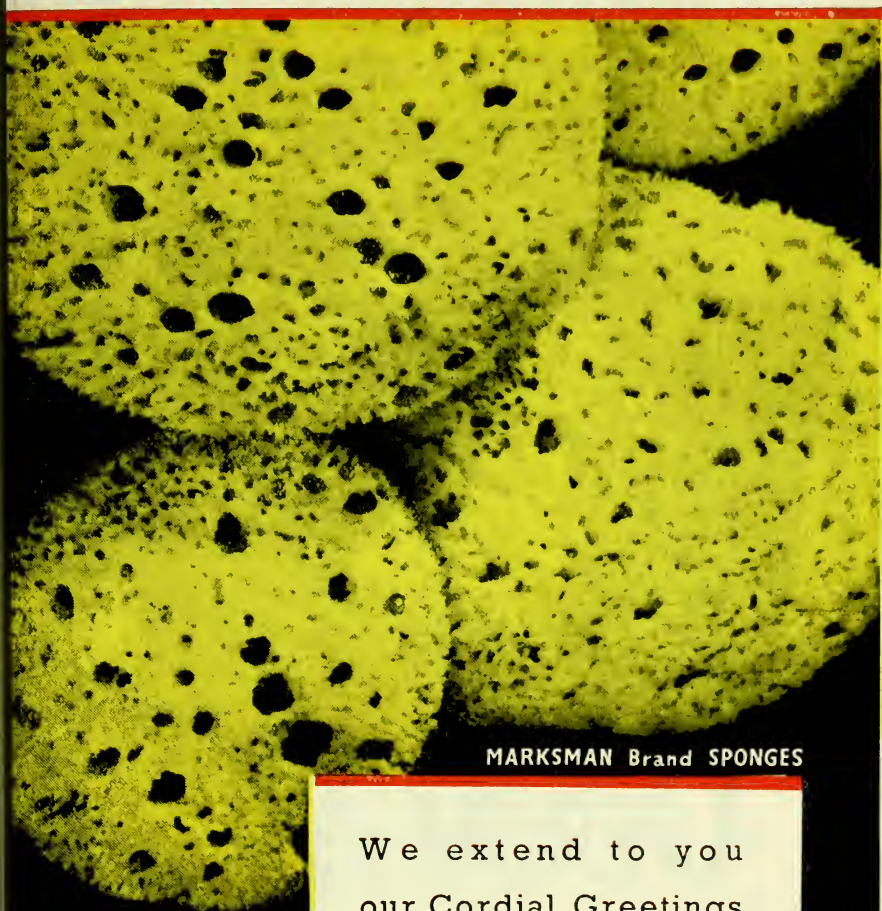


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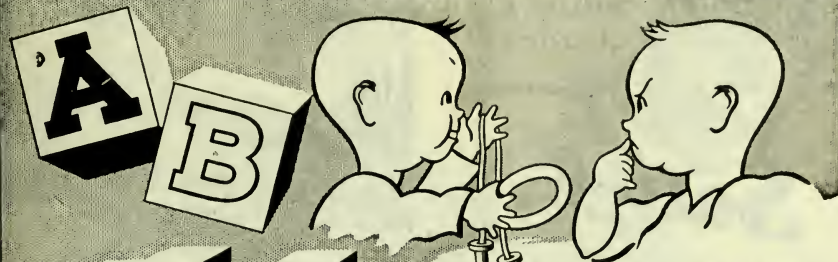
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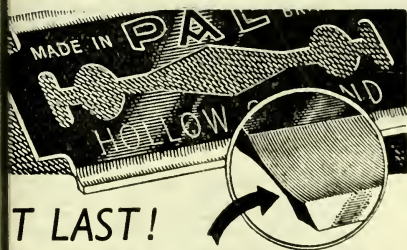
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RELIABLE

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**5,000,000 Saccharin Tablets**  
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says M<sup>r</sup> VITALITY

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Supplies available for Diabetics only.



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# This well-advertised popular remedy is in GREAT DEMAND

Pleasant to take, brings instant relief from Coughs, Colds, Sore Throats, etc., and specially suitable for children, who take it willingly. The public know and value Macaulay's. — STOCK IT! SELL IT!

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RETAILS AT

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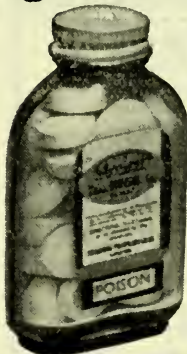
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A uric acid solvent—3 oz. size.

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**With high organically combined sulphur content.**

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For Coughs, Colds, Bronchitis, etc. **1/3** and **3/-**. Also **6/-** Carton  
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**FENNINGS' OINTMENT. Demand Steadily Increasing**

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The supply position is improving, and larger quantities will soon be available

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as always, quick and com-  
prehensive and supplies  
are fairly distributed.

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STOMACH TREATMENT**50%****PROFIT ON OUTLAY**SALES ARE  
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EXTRACT OF MALT WITH COD LIVER OIL



1 lb. SIZE  
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This attractive Show Card in Full Colours (only  $9\frac{1}{2} \times 8\frac{1}{2}$  inches) needs no strutting or fixing, a 1 lb. jar in the centre of stand makes a rigid display. Placed on the Counter or in the Window it compels attention and creates sales.

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AND you have our assurance that it is one of the most perfect preparations of its kind ever to be placed on the market, of unexampled quality and maximum value.

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# WHAT IS M.O.F.?

## *When to Recommend This Fortified Infant Cereal Food*

M.O.F. is a finely sieved oat flour fortified with Vitamin D, Calcium, Phosphorus and Iron and specially processed for quick cooking.

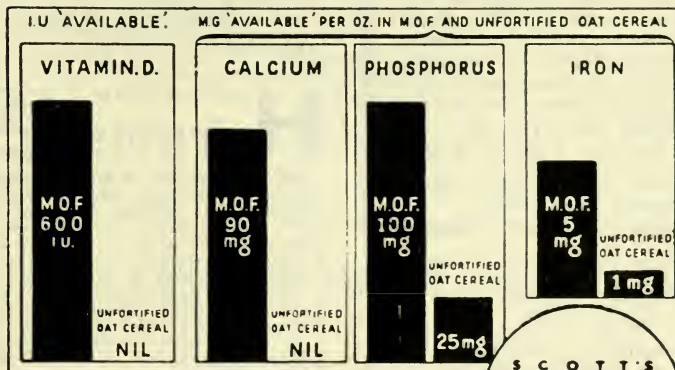
### WHEN AND HOW TO GIVE IT

The use of M.O.F. normally begins with the introduction of mixed feeding. It should be made to a thick consistency and may be spoon fed before the normal breast or bottle feed. Small quantities given at first should be increased as the infant progresses, M.O.F. forming one of the staple factors of a mixed diet.

Where artificial feeding must start at an early age M.O.F. can be given as from 3 months.

### HOW DOES IT COMPARE WITH OTHER CEREAL FOODS?

One of the reasons why progressive medical opinion recommends M.O.F. is because it is more than a cereal. M.O.F. is a fortified food. How it compares with non-fortified infant cereals can be seen in this chart.



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